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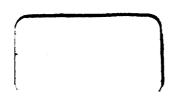
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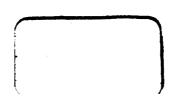
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# SIXTEENTH ANNUAL REPORT

OF THE

# COMMISSIONER OF RAILROADS

OF THE

# STATE OF MICHIGAN

FOR THE YEAR 1888,



BY AUTHORITY.

LANSING:
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CLINTON B. CONGER, St. CLAIR Co., Mechanical Engineer.

OFFICIAL ADDRESS:

LANSING, - - MICHIGAN.

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# REPORT.

STATE OF MICHIGAN,
OFFICE OF THE COMMISSIONER OF RAILROADS,
Lansing, October 1, 1888.

To the Honorable CYRUS G. LUCE, Governor of the State of Michigan:

SIR,—I have the honor to present you herewith my annual report for the year 1888, and accompanying statements, showing the condition of the railroad properties in this State at the close of the year ending December 31, 1887. It will also suggest for your consideration topics of current interest to the date of the report, and matters affecting the interests of the people, and the management of the railroads, which you may deem it necessary to place before the legislature at its approaching session for such action as the general welfare shall seem to demand. It is the sixteenth annual report emanating from the department.

All the railroad corporations doing business in the State have complied with the requirements of law, and sent to this office full reports of their condition and operations for the last year. These reports are reproduced in full in this connection. An examination of them affords a thorough understanding of the work of old companies, and the progress made in the extension of our railroad systems by new. On the whole, while it cannot be said that our railroads are yielding large returns upon the capital invested in their construction; still for the most part, their affairs seem to be in promising shape, with volume of business affording assurance that but few of them will fail at least to be of large service to the localities they traverse, and ultimately a source of profit to their owners. Of the counties of the State only five in the lower peninsula, Benzie, Leelanaw, Montmorency, Oscoda, and Presque Isle remain without railroad facilities. In the upper peninsula, such has been the rapid progress in railroad building during the last two years, that not a single county of that sparsely settled region is now lacking the advantage of rail connection with the commercial centers of the country, and a market for their vast output of ores and forest products. The importance of these great

thoroughfares in the development of the material resources in that portion of our State can hardly be calculated, and clearly demonstrates the wisdom of our liberal legislation that encourages the investment of the vast sums of money necessary to their construction. Sound policy seems to suggest the continuance of such legislation, and that no obstacles be placed through inconsiderate measures in the way of the continued development of our system of internal transportation. It seems apparent from results of operations in this State that a conservative policy rather than one too exacting, as illustrated in the enactments of some of our sister States, is the one best serving the real interests of the public, and most certain to secure fair rates of transportation. While the law-making power should see that our railroad corporations are not in a position to impose unfair, excessive or discriminating charges upon the business of the State, still if lines of railroad shall be multiplied, opening up competing ways to important trade centers, and affording to large manufacturing communities choice of routes, in the shipment of their products to market, in the securing of their trade, the intelligent management of our railroad properties, which sharp competition also makes liberal, will leave but little to be desired in the way of legislation for the regulation of tariff rates. It is believed that careful examination of the several company reports herewith submitted, will establish the fact that the tendency to fair and uniform rates is in the right direction in Michigan, and that with the exception of a better and more clearly defined provision for the regulation of switching and other charges at terminal and junction points of trunk roads, it is questionable whether the rest may not be safely left to the outcome which competition, and well recognized methods for conducting railroad transportation bring in their train.

#### CORPORATIONS.

Numerically the companies doing business in the State remain about as at the date of the last report. But in the case of a number, as will be presently noted, important changes in organization and capitalization have been effected during the year, that present themselves in a very noticeable manner in the tabular statements appended to our report, and to a large degree affecting the value of the figures for the purpose of comparison with those of previous years. But such occurrence, confusing and undesirable as it is, will be of frequent happening until such time as our railroad properties shall have become vested in permanent ownerships, with accounts and reports established upon a lasting basis. The number of corporations reported, including the Detroit Union Railroad Depot and Station Company, was sixty-eight. Fifty-five with roads engaged in general traffic, and thirteen employed for the



movement of ores or forest products almost exclusively. Of the former class, twenty-four were proprietary or leased lines whose traffic operations are included in the reports of the corporations in control of them. & Canada Southern Railway is, and for many years past has been, operated by the Lake Shore & Michigan Southern Railway Company, which latter, it is understood, will soon absorb the former, as the mortgage upon its property is in process of foreclosure, and the road will soon be sold and disappear as a separate interest from the reports to this office. Four roads, the Chicago, Detroit & Canada Grand Trunk Junction, the Chicago & Grand Trunk, the Detroit, Grand Haven & Milwaukee, and Michigan Air Line, in reality are but a part of the vast system of railroads owned by the Grand Trunk Railway of Canada, and, although nominally separate concerns in their corporate capacity, are each under the same operating control. The Marquette, Houghton & Ontonagon road was leased in perpetuity to the Detroit, Mackinac & Marquette previous to the sale of the latter property under foreclosure, and with it passed to the ownership of the Duluth, South Shore & Atlantic Railway Company. The Saginaw Valley & St. Louis Railway is a part of the Detroit, Lansing & Northern system. The Bay View, Little Traverse & Mackinac, since our last report, has been sold to the Grand Rapids & Indiana, and with the Muskegon, Grand Rapids & Indiana and the Traverse City, lateral branches, to its main line, compose the Michigan portion of the Grand Rapids & Indiana system, leaving the number of actual managements in the State unchanged from the date of our last report, and twenty-four in number. In addition to the above, the following new corporations were actually engaged in construction during the year, but having had no road in traffic operation during the period under report, have made no returns to the Commissioner. The Minneapolis, Sault Ste. Marie & Atlantic, the Toledo, Saginaw & Muskegon, the Toledo, Saginaw & Mackinac, the Chicago, Kalamazoo & Saginaw, and the Grand Rapids, Lansing & Detroit, comprise the list.

#### THE DULUTH SOUTH SHORE & ATLANTIC.

The organization of the Duluth, South Shore & Atlantic Railway Company by the consolidation of the old Detroit, Mackinaw & Marquette Company with certain corporations of Wisconsin and Minnesota, was alluded to in our last report. The new corporation makes its first return at the close of 1887. The previous report for the property gave a mileage in the State of 150.90; the capital stock was reported at \$3,040,000.00; no funded debt; cost \$3,-011,205.15. The returns for 1887 increase the track mileage to 197.70, fix the capital stock paid in at \$22,000,000, common \$12,000,000, preferred \$10,000,000, and the funded debt at \$4,000,000.00, with a total of expendi-

ture for construction and equipment of \$26,054,887.90, which sum very nearly approximates the total of stock and debt. It must not be forgotten, however, that the cost reported covers the extension of the line west of Nestoria, which would nearly double its length of track, and was well advanced towards completion at the close of the year.

#### THE CINCINNATI, JACKSON & MACKINAW.

This corporation, as suggested in our last report, acquired the property of the old Michigan & Ohio Railroad Company, which had been in the hands of a receiver for several years past, and almost from the date of its opening for traffic. The previous report was by the receiver, covering 133 miles of track. No stock or indebtedness were quoted. The cost of the property was stated at \$8,580,550.20. The new company took possession and commenced the operation of its Michigan acquisition in March, 1887. Its first report covers the stock, debt and cost of the entire property of the corporation, in Ohio as well as Michigan, but the traffic accounts are given for the Michigan mileage alone. The capital stock of the present corporation paid in, is \$15,882,965; the funded debt is given at \$4,200,500.00; stock and debt at \$20,226,680.79; cost \$20,380,100.91; the Michigan proportion of which is stated at \$9,885,869.76. Per mile of road (321.6 miles), the cost figures at \$63,370.96, a sum so largely in excess of the real value of the property as to suggest unfavorable comment upon the policy of loading down a new enterprise with liabilities that cannot fail to seriously impair the financial standing of the corporation.

#### THE DETROIT, BUTLER & ST. LOUIS.

The affairs of this concern continue to be in an unsettled condition, and its accounts a disturbing factor in the reports from this office. For some years after its completion the property of the corporation was controlled by the Wabash, St. Louis & Pacific, and upon the failure of the latter company passed with its other belongings into the hands of receivers, by whom it was managed until last year, when, by decree of the United States court, a portion of the property, mostly lying west of the Mississippi river, was sold, the Detroit division being included. A new corporation, the "Wabash Western," acquired control of the trans Mississippi line, and, pending a further disposition of the property east of the river, the purchasing committee placed the Detroit division in the hands of the Wabash Western for operation. The report for 1887, therefore, is made in behalf of the purchasing committee. It covers only traffic operations of the Detroit division and eliminates from our statements the large values that for years past have been given in the

returns of the vast Wabash system to this office. The figures for the last year were: Track mileage owned, 1,967.60 miles, operated, 2,191.40 miles; capital stock paid in, \$52,626,800.00; funded debt, \$80,762,009.37; cost, \$119,346,161.10; stock and debt, \$135,492,096.54; traffic earnings, \$12,806,460.77; expenses, \$9,831.824.68. The returns for 1887 reduce the above to track mileage, 335.30; cost, \$2,528,600.00; traffic earnings, \$1,250,848.67; expenses, \$1,038,202.33, the resulting decrease of itself being alone sufficient to largely affect the footings of the comparative statements that form a prominent feature of our report. I have deemed it necessary to enter thus fully into the details of changes appearing in the summary of this report, in order to an intelligent understanding of the great fluctuation from the exhibit of the previous year.

During the year the Pontiac, Oxford & Port Austin road has passed into the control of the trustees of the first mortgage bondholders. The property is advertised for sale and doubtless will soon be reorganized by a new company, or what is more likely, be acquired by some existing corporation and made a feeder tributary to its present line.

I give in the appendix the usual tabular statement from the office of the Secretary of State, to which reference may be had for information regarding the incorporation of new companies and changes in the status of the old since the issue of our last annual report. There appear to have been 11 new companies organized with capital stock of \$8,800,000.00, and 751 miles of track. A number of the roads included in the list will prove valuable additions to our railroad systems. They have filed maps of their proposed lines and some of them are in course of construction. The consolidation of the Minneapolis, Sault Ste. Marie & Atlantic Railway Company with corporations of Minnesota and Dakota will especially attract attention, as giving to Michigan a continuous through connection to the Pacific coast by way of the Northern Pacific, which is intersected by the road of the newly consolidated company at Bismarck, in the Territory of Dakota. The Paw Paw Railroad, prominent for exceptional legislation in its behalf, is now a portion of the Toledo & South Haven proper, and will in future be subject to the provisions of our general railroad laws regulating rates of traffic the same as other roads.

#### TRACK MILEAGE.

The miles of road owned by corporations reporting to this office for 1887 were 11,932.91, an increase upon the figures of the preceding year of 768.57 miles—6.88 per cent. This results largely from the fact of the Chicago & Northwestern Company including for the first time the track of its proprietary lines as property owned, increasing the figures from 2,463.70

miles last year to 4,208.79 this. Of road operated the report shows but 12,-404.82 for 1887 as against 13,596.87 for 1886, a decrease of 1,192.05 miles, or 8.74 per cent during the former year. For Michigan the track mileage is 5,768.41 miles, being 190.78 miles or 3.42 per cent more than at the close of the previous year. This is 48.34 per cent. of the entire track mileage of companies reporting to this office.

The following statement shows in detail the increase and decrease of track as reported for 1887. The latter results, as will be seen, in large part from the abandonment of track by forest roads which become useless as the supply of logs is exhausted, and the field of operations left an almost desolate waste.

Statement showing Increase and Decrease of Track Mileage in the State of Michigan during the Year ending December 31, 1887.

Companies.	Increase. Miles.	Decrease. Miles.
General Traffic Roads.		
Detroit, Bay City & Alpena	83,60	
Duluth, South Shore & Atlantic	46,50	
Flint & Pere Marquette	2.44	
Grand Rapids & Indiana	95	
Lake Shore & Michigan Southern		5.72
Manistique	7.50	
Marquette, Houghton & Ontonagon		4.45
Marquette & Western	2.18	
Mason & Oceana		7.00
Saginaw Bay & Northwestern (Mich. Central)	21.02	
Milwaukee, Lake Shore & Western	7.91	
Milwaukee & Northern	58.00	
Toledo, Ann Arbor & North Michigan	8,55	
Toledo & South Haven	17.00	
Ore and Forest Roads.		
Bear Lake & Eastern	1.00	
Colfax and Big Rapids	6.00	
Lake County	8,00	
Manistee & Luther	12.50	
Mecosta		. 5.00
West Branch & Moorestown (Taken up)		10.50
Total	228.45	82,67

But the foregoing statement does not show the actual increase of railroad track within the State during 1887, but only new track reported as operated. In addition, the following named companies reported newly constructed track as nearly or quite ready for operation at the close of the year:

Companies.	Miles.
Chicago & Northwestern (Iron River Ry.)	85.16
Chicago, Kalamazoo & Saginaw	81.00
Gogebic & Montreal River (Wisconsin Central)	6.94
Hastings & Lowell	12.00
Minneapolis, Sault Ste. Marie & Atlantic	192,24
Toledo, Ann Arbor & Cadillac	66.80
Toledo, Saginaw & Muskegon	96.00
Total	439.64

Added to the increase as above given, we have a total of 630.42 miles, which is 11.30 per cent upon the total track in the State at the beginning of the year, and a total at its close of 6,398.83 miles.

The miles of double or second track reported are 121.10, being an increase of 32.10 miles from last year. Of sidings in Michigan, 1,430.68 miles are reported, which is an increase of 138.38 miles, and 10.78 per cent from last year. Computed as a single track the total mileage is 7,320.26,—361.33 miles, or 5.18 per cent, in excess of figures of the previous year. The following table, continued from reports of previous years, exhibits the progress of construction in Michigan during a period of fifty years, commencing with the inception of our railroad system, two years subsequent to the admission of the State into the Union:

Table showing Progress of Railroad Construction; in Michigan from 1838 to 1887 inclusive.

Years.	Miles.	Years.	Miles.
1838	63	1863	812
1889	71	1864	891
1840	104	1865	981
1841	147	1866	948
1842	147	1867	1,06
1848	180	1868	1,12
1844	220	1869	1,862
1845	228	1870	1,789
1846	279	1871	2,296
1847	279	1872	2,829
1848	<b>326</b>	1873	3,252
1849	858	1874	8,818
1850	380	1875	8,847
1851	421	1876	8,410
1852	425	1877	8,455
1863	425	1878	8,564
1854	425	1879	3,657
1855	462	1880	3,828
1866	580	1881	4,252
1857	579	1882	4,609
1858	703	1888	4,966
1859	770	1884	5,120
1860	770	1885	5,247
1861	777	1886	5,577
1862	811	1887	5,768

As appears from the foregoing statement, the average of track laid each year has been 115.36 miles. Considering the vast areas of forest that characterize our State, and the consequent slowness in the increase of its population, and the physical difficulties attending the construction of railroads through wide regions of dense unbroken wilderness, the showing made in the development of our system of internal transportation is creditable to the State and explains in a large measure the source of its material prosperity.

#### CONSTRUCTION DURING 1888.

While the current year will show some additions to the railroad lines of the State, the same activity does not prevail as during the year preceding. Construction will be largely limited to completion of road commenced during 1888, with one or two new extensions in the northwestern counties, as shown in subjoined statement.

Statement showing Estimated Length of New Railroad Track Completed in the State of Michigan during the year ending December 31, 1888.

Companies.	Terminiis of Roads.	Miles.
Detroit, Lansing & Northern	Grand Ledge and Grand Rapids	58.00
Dulmah Gamah Shama & Addamas	Nestoria and State Line	68.50
Duluth, South Shore & Atlantic	L'Anse Branch	20.00
Cincinnati, Jackson & Mackinaw	Addison and State Line	22.50
Toledo, Saginaw & Mackinac	East Saginaw and Durand	45.00
Manistee & Northeastern	Manistee and Traverse City	85.00
Total		289.00

Short extensions in progress by old companies will probably increase the above to a total of 275 miles. The Chicago & West Michigan Company has its engineers in the field locating the proposed extension of its line northward from Baldwin to Manistee and Traverse City. The Toledo, Ann Arbor & North Michigan is also preparing to complete its road by extension from Cadillac to Frankfort on Lake Michigan, with a branch to Manistee.

The Chicago, Kalamazoo & Saginaw is locating its line and securing right of way between Hastings, in Barry county, and Portland, in Ionia county, and contracts have been let for the construction of the Battle Creek & Bay City, with a connection southwardly from the former city to Sturgis, there connecting with the Canada & St Louis, now in course of construction between the latter point through Indiana to Danville in the State of Illinois. A number of other shorter lines have been located in the field, which, with the more important ones above mentioned, give promise of early completion.

#### PRIVATE LOGGING ROADS.

I again call attention to this class of roads which continue to multiply in the forest regions of the State, and to renew the recommendations of my last report with reference to the same. The necessity and usefulness of these roads are obvious, and it is frequently necessary that they cross the tracks of the incorporated roads. Permission for such crossing is of questionable legality, and in the absence of statute regulations that can be enforced by this department, constitutes a constant menace to the safety of trains upon the general traffic roads. I respectfully recommend that this subject be presented to the next Legislature for its consideration.

#### CAPITAL STOCK.

You are respectfully referred to Table No. 3 for a statement in detail of the capital stock taken to account by our railroad corporations. The amount paid in continues to show a decrease. It now figures at \$262,126,928.87, which is \$14,716,625.13, or 5.31 per cent., less than for the previous year.

Per mile of road, the capitalization is \$21,966.71, a decrease of \$2,830.41 from 1886, being 11.01 per cent. Of this stock the holders in Michigan were 1,076 of a total of 13,237, and their holdings \$8,960,818.68, which was only 3.42 per cent of the whole.

#### INDEBTEDNESS.

The total indebtedness of Michigan railroad corporations December 31, 1887, is reported at \$286,456,802.03; per mile of road \$24,006.00. Classified the indebtedness is as follows:

	1.13 %		
Unfunded debt,	8.87 %	25,434,821	40
Total	· · · · · · · · · · · · · · · · · · ·	\$286,456,802	03

As compared with the returns of previous year there is a decrease of indebtedness in the sum of \$66,938,915.65, which is 18.97 per cent. Per mile of road the decrease is \$7,648.06 or 24.16 per cent. The disappearance of this vast amount of liability from our annual balance sheet is a long step forward in the direction of more reasonable exhibits of our property values.

For convenience of reference, I append statement giving in detail changes in the indebtedness returns of the several corporations for the period under report.

## COMMISSIONER OF RAILROADS.

### CHANGES IN INDEBTEDNESS, 1887.

Companies.	Increase.	Decrease.
Commercial Roads.		
Bay View, Little Traverse & Mackinac	\$8,501 45	
Chicago & Canada Southern	185,255 49	
Chicago & Grand Trunk		\$37,758 86
Chicago & Northwestern	7,388,460 66	
Chicago & West Michigan	187,656 74	
Cincinnati, Jackson & Mackinaw	8,991,579 94	•
Cincinnati, Wabash & Michigan	86,615 07	
Detroit, Bay City & Alpena	157,969 28	
Detroit, Grand Haven & Milwaukee	124,648 62	
Detroit, Lansing & Northern	98,940 61	
Duluth, South Shore & Atlantic		1,671,828 69
Flint & Pere Marquette	580,678 95	
Manistee	21,180 28	
Grand Rapids & Indiana	894,866 20	
Lake Shore & Michigan Southern		877,678 76
Manistique	88,702 90	
Marquette, Houghton & Ontonagon	298,441 18	
Mason & Oceana	81,787 83	
Michigan Air Line Railway		72,889 00
Michigan Central.		818,989 47
Canada Southern Bridge	78,407 93	
Jackson, Lansing & Saginaw	<b> </b>	834,000 00
Michigan Air Line Railroad		108,000 00
Michigan, Midland & Canada	28,169 86	·
Toledo, Canada Southern & Detroit		18,587 87
Milwaukee, Lake Shore & Western	1,374,205 41	•
Milwaukee & Northern	4,841,917 81	
Mineral Range.		18,918 00
Muskegon, Grand Rapids & Indiana	10,224 91	·
Ontonagon & Brule River	84,359 95	
Pontiac, Oxford & Port Austin	90,061 41	
Port Huron & Northwestern	65,090 44	•
Saginaw, Tuscola & Huron	43,998 18	
Saginaw Valley & St. Louis	11,451 50	
Toledo, Ann Arbor & North Michigan	977,766 60	
Toledo & South Haven	162,803 47	
Traverse City	]	4,211 00
Wabah (mortgage foreclosed)		82,865,296 54
***		

#### ANNUAL REPORT OF THE

#### CHANGES IN INDEBTEDNESS, 1887.—CONTINUED.

Companies.	Increase.	Decrease.
Ore and Forest Roads.		
Bear Lake & Eastern		\$10,689 06
Buckley & Douglas	\$5,498 18	
Colfax & Big Rapids	10,000 00	
Crawford & Manistee River	2,668 51	
Hancock & Calumet	87,037 88	
Hecla & Torch Lake		56,808 66
Hobart & Manistee River	8,417 28	
Manistee & Luther	80,462 85	
Mecosta		18,000 00
Paris & Pere Marquette	7,428 25	

#### STOCK AND DEBT.

The total stock and debt is reported at \$548,583,730.90 as against \$630,-240,271.68 for the previous year, a decrease of \$81,656.540.78, or 12.95 per cent. Per mile of road the decrease was \$7,648.06—18.56 per cent.

COST.

The property accounts of the several companies show a footing of \$499,-601,490.52, and \$41,031 per mile of road, a decrease from the preceding year of \$80,343,934.96, and \$10,915.23 per mile of road, 13.85 and 21.03 per cent. respectively. Michigan's proportion of cost figured upon the pro rata mileage basis is \$240,157,066.90. This latter sum is an increase of \$26,792,-837.93, or 11.11 per cent upon corresponding value for previous year. The Michigan proportion is 48.07 per cent of the entire system reporting to this commission. The stock and debt, though largely decreased from the report of previous years, is still uncomfortably in excess of cost of property per mile of road. The total excess is \$48,982,240.38, which is 9.82 per cent upon reported cost of properties—and 8.93 per cent upon the entire stock and debt. We subjoin our usual statement showing the fluctuations of the excess of stock and debt over cost for the several years since the organization of this department in 1873:

#### STATEMENT.

CIAIMANI.					
Year.	Excess of Stock and Debt over Cost,				
1873	*14,605,531 11				
1874	13,241,471 81				
1875	17,563,469 80				
1876	19,556.513 93				
1877	20,102,224 28				
1878	18,435,558 69				
1879	17,091,975 90				
1880	16,563,711 82				
1881	20,150,073 00				
1882	28,322,983 60				
1883	41,768,609 09				
1884	47,397,518 61				
1885	50,543,044 88				
1886					
1887	48,982,240 38				

#### FINANCES.

#### General Exhibit.

The total operating revenue returned by 68 companies for the last fiscal year was \$82,637,090.38, which is a falling off of revenue compared with previous year of \$1,261,469.82, or about 1.50 per cent. But for the absence of the traffic earnings of the great Wabash system, heretofore included in the exhibit, a large increase of operating revenue would appear. The total operating expenses, including taxes, were \$52,301,569.42, leaving a net surplus of \$30,245,526.96, 36.60 per cent. of revenue. From such surplus were payable fixed charges and dividends as follows:

Interest on the Funded Debt	<b>\$14,636,114</b>	99
Interest on the Floating Debt	392,994	<b>53</b>
Rentals	2,826,000	41
Dividends	7,551,212	16

 Chicago & Northwestern Railway Company transferred to "Cost of Road" on account of net income expended for construction purposes prior to May 31, 1886, and not capitalized \$10,000,000.00. The Milwaukee, Lake Shore & Western Railway Company similarly disposed of \$316,751.54 of their income balance. The example is commended to the attention of others of our corporations, whose income balances are full of the vanity which "puffeth itself up," and the pride that "goeth before a fall."

We give the following exhibit of the financial condition and transactions of the corporations as formulated from their several balance sheets for 1887:

#### GENERAL BALANCE SHEET.

# The Railway Companies of Michigan in General Account.

$D\tau$ .		
To Balance forward from 1886	\$20,521,331	12
Total operating revenue, 1887	82,637,090	38
Receipts in addition to traffic earnings	1,367,469	19
	<b>\$104,525,890</b>	65
Cr.		
By operating expenses and taxes, 1887	<b>\$52,391,569</b>	42
Interest on Funded Debt	14,636,114	99
Interest on floating debt	392,994	53
Rentals	2,826,000	41
Dividends	7,551,212	16
Balances of debit items transferred from income and		
other accounts	7,928,001	99
Balances forward to 1888	18,795,997	19

### ANALYSIS OF EARNINGS AND EXPENSES.

The total traffic earnings (including receipts from train operation only) show a diminution during the period under report of \$1,277,782.62 compared with the outcome of the previous year. Operating expenses also show a decrease of \$1,826,639.89. The net result being \$648,857.27 in favor of 1887, or 2.30 per cent.

#### EARNINGS.

The total traffic receipts were reported at \$81,556,252.85, 1.54 per cent less than for the previous year. As classified between the passenger and freight departments we have the following:

\$104,525,890 69

Passengers, 30.44 %		
Freight, 59.56 %		56,737,555 75
Total		\$81,556,252 85
As between the two departments compared with year, the foregoing proportions between the two same ratio, indicating an increase for freight receipt	o, continu	e nearly in the
The receipts of the passenger department were d sources:	erived fro	m the following
Transportation of passengers	86.15 %	\$21,382,606 38
Transportation of express and baggage		1,548,953 04
Transportation of mails		1,874,818 38
From other sources	.05 %	12,319 30
		\$24,818,697 10
The freight department derived its proportion o	f earnings	as follows:
Transportation of freight	99.08 %	<b>\$</b> 56,672,882 9 <b>5</b>
From other sources	.92 %	64,672 80
·		\$56,737,555 75
		V==, (== 1, == 1,
CLASSIFICATION OF EARNINGS, 1887 COMP.	ARED WIT	·
CLASSIFICATION OF EARNINGS, 1887 COMP.  Transportation of Passenger		·
Transportation of Passenger	8.	T 1896.
	s. 36.15 %	·
Transportation of Passenger	86.15 % 34.18 %	\$21,382,606 38
### Transportation of Passenger   1887	86.15 % 34.18 %	\$21,382,606 38 21,275,478 05
Transportation of Passenger  1887	36.15 % 34.18 % 1.97 %	\$21,382,606 38 21,275,478 05 \$107,128 33
### Transportation of Passenger   1887	86.15 % 84.18 % 1.97 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04
Transportation of Passenger  1887	86.15 % 84.18 % 1.97 % 6.24 % 7.45 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04 1,884,583 11
Transportation of Passenger  1887	86.15 % 84.18 % 1.97 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04
Transportation of Passenger  1887	86.15 % 84.18 % 1.97 % 6.24 % 7.45 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04 1,884,583 11
Transportation of Passenger  1887	86.15 % 84.18 % 1.97 % 6.24 % 7.45 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04 1,884,583 11 \$335,630.07
Transportation of Passenger  1887	6.24 % 7.45 % 7.56 %	\$21,382,606 38 21,275,478 05 \$107,128 33 \$1,548,953 04 1,884,583 11 \$335,630.07

#### Transportation of Freight.

1887	99.08	%	<b>\$</b> 56,672,882	95
1886	99.35	%	<b>57,</b> 187, <b>4</b> 06	08
Decrease	.27	<del>%</del>	\$514,523	08
Other Sources.		,		
Passenger department, 1887	<b>.</b>	05 %	\$12,319	30
1886	<b>-</b> •	18 %	45,809	35
Decrease		13 %	\$33,490	05
Freight Department, 1887	•	92 %	64,672	80
1886		65 %	376,386	29
Increase		27 %	\$311,713	49
Based upon the whole volume of traffic the per of from the business of the preceding year are as follows:		incr	ease or decre	ase
Passenger earnings—Increase			503	%
Express earnings—Decrease				%

Per mile of road operated the traffic earnings were \$6,574.95 as against \$6,047.66 the previous year, a gain of \$527.29 and 8.71 per cent.

Other sources—Decrease 81.07 %

Per train mile the following appears:

•	1886.	1887.	Increase.	Decrease
Passenger trains	\$1.07	<b>\$1.18.8</b>	<b>\$0.11.8</b>	
Freight trains	1.51.38	1.52.6	0.00.68	
All trains earning revenue	1.34.42	1.40.48	0.06.06	

#### OPERATING EXPENSES.

The total operating expenses, including taxes, for 1887 are stated at \$52,389,984.30, which, as elsewhere noted, is \$855,032.71, or 7.57 per cent less than for the preceding year, and 1.77 per cent in excess of decrease of train mileage, a result indicating that the closest economy consistent with efficient service is still the rule of our managements. I subjoin a statement exhibiting the expenses in detail between the operating divisions and a comparison with the returns for the same classes of outlays during the preceding year. This distribution is made by the several corporations from classifications adopted by

.899 %

this department for uniform use of the accountants reporting to this office, and reference to Table No. 8 with this report, will afford a very close and accurate criterion from which to determine comparative results of management of the railroad properties in the State:

STATEMENT SHOWING CLASSIFICATION OF EXPENSES FOR 1887, AND COMPARISON OF SAME WITH RETURNS FOR LIKE OUTLAYS DURING 1886.

Maintenance	of	Way	and	Buildings.
-------------	----	-----	-----	------------

1887	<b>\$11,266,038</b>	62—	21.50 %
1886	12,121,071	33—	22.31 %
Decrease	<b>\$</b> 854,932	71—	.81 %

# Maintenance of Rolling Stock.

1887	<b>\$8,129,557</b>	58	1	5.52	%
1886	8,133,599	34—	1	5.02	%
Decrease	\$4.041	76	+	.50	<u>~</u>

# ${\it Conducting \ Transportation}.$

Decrease	\$302,589	04	+ 1.14 %
1886	26,627,559	96	49.11 %
1887	<b>\$</b> 26,324,970	92	50.25 %

#### General Expenses and Taxes.

	\$664.976	38—	.83 %
1886	7,334,393	56	13.56 %
1887	\$6,669,417	18 •	12.73 %

As cast upon the total footing of the expense account the following is shown as the outcome for the year:

Maintenance of way—Decrease	7.57	%
Maintenance of rolling stock—Decrease	0.042	%
Conducting transportation—Decrease	1.13	%
General expenses and taxes—Decrease	9.20	%

Operating expenses per mile of road and per train mile, as compared with 1886, were as follows:

	1886.	1887.	Increase.	Decrease.
Per mile of road \$3	,958 32	<b>\$4,216 34</b>	<b>\$</b> 258 02	
•			6.51 %	
Per train mile	0.87.97	0.90.09	02.12	
Per cent. of earnings	65.45	64.23		1.22

# Receipts in Addition to Traffic Earnings.

In addition to traffic earnings, receipts from other sources were reported in the sum of \$1,367,469.19, making the gross income for 1887 \$82,923,722.04, the former figures being \$66,545.36, or 5.11 per cent., and the latter \$1,211,237.26, 1.44 in excess of receipts on similar account for the previous year. Per mile of road operated, the total revenues from all sources were \$6,684.79; per train mile, \$142.80.

The proportion of gross receipts and expenses, figured upon a pro rata mileage basis for Michigan account, will be as follows:

Total income	<b>\$</b> 30,489,920	86
Total expenses	20,783,607	89
Total net for Michigan	\$9,706,312	97

The net receipts as above stated are \$1,662.24, being a return of 4.05 per cent upon the reported cost per mile of the roads in Michigan. Estimating the cost at half the reported figures still the sum remaining from which to pay interest and other fixed charges is so small as to leave but meagre dividends to stockholders. The following statement, reproduced from previous reports with figures for 1887 included, gives in available form the outcome of traffic operations for the five years last past.

#### STATEMENT.

Earnings and Expenses.	1883.		1884.		1885.		1886.		1887.	
Total earnings per mile of road Total earnings per train	6,438	23	\$81,807,316 5,798	94	\$76,952,864 5,797	00	\$82,834,035 6,047	66	\$81,558,252 6,574	95
mile	1	46	1	81	1	24.9	1	34.42	1	40.48
Total expenses Total expenses per mile	61,190,996	41	58,035,288	65	54,188,685	01	54,216,624	19	52,389,984	<b>30</b>
of road	4,850	15	4,059	82	4,660	72	3,958	32	4,216	84
mile		98.84		93.21		87.9		87.97		90.09
earnings	67	67	70	86	70	<b>35</b>	65	45	64	28

# FIXED CHARGES.

# INTEREST.

		_		
The sums taken to account for interest during t	he year ui	nder i	report	W88
\$15,029,109.52, being				
Per mile of road				
Per train mile			0 25	.88
Per cent. of earnings			18 12	;
Liabilities on account of interest charges were cla				
Funded debt			36,114	99
Floating debt	2.62 %	3	92,994	<b>53</b>
	•			
		\$15,0	29,109	<b>52</b>
RENTALS.				
The sum written off for rentals during 1887 was	<b>\$</b> 2.826.00	0 41. 4	ennival.	en t
to—	44,040,00	··, ·	oquitar	
Per mile of road			236 89	t.
Per train mile				.87
Per cent of earnings.			3.31	
ter cent. or carmings			9.91	
INTEREST AND RENTALS.	•			
Total		7.855.	110 33	
Per mile of road			439 37	
Per train mile		-,	0 30	
Per cent. of earnings			21 77	
•				
These figures, compared with similar details for as follows:	the prece	ding y	ear, sh	<b>.0₩</b>
Increase.	Decre	a.so.		
Total	<b>*</b> 685,700	52	3.61	%
Per mile of road	226	72	13.60	%
Per train mile				
Per cent. of earnings		.04		
OPERATING EXPENSES, INTEREST, ANI	D RENTALS	<b>.</b>		
The sums written off on above account during the	year were	e as fo	llows :	:
Total	\$7(	0.245.	094 63	
Per mile of road			655 71	
		υ,		

Per train mile....

Per cent. of earnings .....

86.13

1 20.85

Compared with similar details for the preceding year we have as follows:

	Increase.	Decrease.		
Total		<b>\$</b> 2,572.349	41	3.45 %
Per mile of road		861	24	13.21 %
Per train mile	02.80			•
Per cent. of earnings				1.90

#### DEFICIT OF EARNINGS TO EXPENSES.

Four companies report insufficient earnings to cover expenses as follows:

Companies.	Deficiency.
Chicago & Canada Southern	1
Ontonagon & Brule River	. 904 88
Hobart & Manistee River	. 8,417 25
Mecosta	. 8,081 54
Total for four Companies	. \$14,768 61

It is an increase of the figures of preceding year, on account of similar deficiency of \$3,201.43.

#### GENERAL DEFICITS.

Thirteen companies, as included in the following table, carried forward debt balances aggregating \$5,827,224.39. This was a decrease from similar liability of \$4,607,298.69, 45.11 per cent reported from the preceding year, and shows a satisfactory improvement in the financial condition of our railroad properties. Through reorganization of their capital accounts upon a more reasonable footing, coupled with the continued prosperity and development of the State, doubtless this class of deficiencies will gradually disappear from our reports and no concerns left unable to at least meet their expenses and fixed charges.

# COMMISSIONER OF RAILROADS.

# STATEMENT OF COMPANIES CARRYING FORWARD DEBIT BALANCES, 1887.

Companies.	Amount.	
Chicago & Canada Southern	\$2,693,679	47
Grand Rapids & Indiana	2,386,764	78
Ontonagon & Brule River	14,514	50
Pontiac, Oxford & Port Austin	821,151	. 06
Port Huron & Northwestern	169,841	16
Saginaw, Tuscola & Huron	23,359	68
Saginaw Valley & St. Louis	85,521	16
Bear Lake & Eastern	645	59
Buckley & Douglas	61,255	94
Colfax & Big Rapids	97	52
Hobart & Manistee River	17,415	87
Mecosta	3,696	41
Wabash (Detroit, Butler & St. Louis)	49,281	28
Total for thirteen roads	\$5,827,224	- 39

# DIVIDENDS.

Dividends were declared by the ten companies included in the following table, which exhibits the amount of capital stock paid in and the amount and character of dividends declared by each respectively:

#### STATEMENT OF DIVIDENDS, 1887.

Companies.	Capital Stock Paid in.	Amount of Dividend.	Character of Dividend.
Chicago & Northwestern	\$74,863,570 53	<b>\$3,444,504 00</b>	6 per cent on common.
Chicago & West Michigan	6,796,800 00	153,755 00	2% per cent.
Detroit, Bay City & Alpena	1,870,000 00	66,800 00	4 per cent.
Detroit, Grand Haven & Milwaukee	1,500,000 00	45,000 00	3 per cent for 1886.
Detroit, Lansing & Northern	4,835,600 00	230,465 00	8 per cent on com. for six months, ending Dec. 81 1886. 834 on pref'd to June 80
Flint & Pere Marquette	6,500,000 00	422,500 00	1887.   6% per cent.
Lake Shore & Michigan Southern System	55,928,479 53	1,978,660 00	4 per cent.
Michigan Central System	28,052,466 50	749,528 16	4 per cent.
Milwaukee, Lake Shore & Western	4,185,000 00	430,000 oò	7 per cent on preferred
Mineral Range	391,700 00	30,000 00	and common.  7½ per cent.
Total for ten companies	\$182,175,616 56	\$7,551,212 16	

The amount returned to stockholders, as shown by the foregoing statement, is in excess of similar disbursements for the previous year in the sum of \$1,757,790.58 or 30.35 per cent. It will be observed that the dividend declared by the Detroit, Grand Haven & Milwaukee was on account of earnings of the previous year. The amount applied to dividends averages 4.14 per cent upon the capital stock paid in, the latter being 69.88 per cent of the entire reported. The residue, \$79,951,312.31, yields no return to the owners of the properties.

The foregoing summary of the financial condition of our railroad corporations, while it does not indicate an exceptional prosperity, still it discloses the fact that but few of them are without promise of substantial returns in the future and able to maintain a desirable credit for the present. The vast sum of money invested in our railroads that yield no return to the capitalist has nevertheless proved of the highest advantage to the State in the development of its material resources, and especial care should be taken that no hostile legislation arrests the progress of our railroad system into the few remaining localities still unprovided with the means of moving their products, whether of the farm or the forest, to the market centers.

#### TRAFFIC.

The volume of traffic for the companies reported is considerably in excess of the returns for the preceding year, although the absence of the large business of the great Wabash system, hitherto included in our yearly statements, leave an apparent falling off in the passenger department and a noticeable dimunition in the aggregate of train mileage.

#### TRAIN MILEAGE.

Train movements for the year under report are as follows:	
Passenger train mileage	20,875,799
Freight train mileage	37,176,420
Total for trains earning revenue	58.052,219

As compared with movement for the preceding year passenger trains show a falling off of 2,564,935 miles, or 10.94 per cent; freight trains 1,013,049 miles, 2.65 per cent, and a total for both of 3,577,984 miles, or 5.80 per cent.

#### PASSENGER BUSINESS.

The whole number of passengers carried upon the roads of the State during 1887 is reported at 24,057,719, a decrease of 639,346 passengers, or 2.58-

per cent upon the trame of the preceding year.	Of this number there were
classified as	
Through passengers	664,769
Local passengers	23,392,950
Total	24.057.710

The average distance traveled by each passenger was 29.27 miles, being 8.99 miles less than the average ride for the previous year. The average fare paid by each person was \$0.89.08, and the average rate per mile \$0.02.39; which was a decrease of \$0.01.11 for the former and increase \$0.00.16 for the latter rates. As some of the companies fail to report through and local rates separately it is impracticable to give in this connection the average rates for through and local business separately, but from calculations based upon the figures of reports quoting the highest as well as lowest rates, it seems certain that the average through rate is about two, and the average local rate about two and a half, cents per mile. The highest rate quoted is for the Marquette, Houghton & Ontonagon road, \$0.03.90 per mile, the Duluth, South Shore & Atlantic being next with a through rate of \$.03.40 per mile, the remaining companies all charging less than three cents per mile, the Chicago & Grand Trunk being lowest with a rate of \$0.01.49, being followed by the Michigan Central with a rate of \$0.01.87, and the Lake Shore & Michigan Southern Company with a rate of \$0.02.072 per mile. The lowest local rate reported is by the Cincinnati, Jackson & Mackinaw, \$0.02.12, the Saginaw, Tuscola & Huron being next lowest at 02.16. The Lake Shore and Michigan Central system report a local rate of \$0.02.335, and the Michigan Central of \$0.02.47. The highest local rate reported by a commercial road is by the Mineral Range, \$0.03.98, the Toledo & South Haven being next, rate, 03.32. The highest rate for all business is that charged by the Mineral Range, and the lowest that by the Chicago & Grand Trunk, \$0.01.75.

The whole number of passengers carried one mile was 896,253,954, which was a decrease from the previous year of 639,346, or 2.58 per cent.

At the last session of the legislature a bill was introduced in the House, and passed that body, fixing the maximum rate of passenger fares at two cents per mile for all roads in the State. It failed in the Senate, and presuming that the proposition may be revived at the approaching session of the legislature, I elsewhere make such suggestions with regard to the topic as its importance, both in connection with the interests of the people and the corporations, seems to demand.

#### FREIGHTS.

The aggregate tons of freight moved during 1887 was 41,209,889, being 6,417,321 tons, or 5.46 per cent. increase upon the volume of the previous year of the companies reporting. As classified between through and local business, the shipments were as follows:

Through freights—tons	6,564,769	15.93 %
Local freights—tons	34,645,111	84.07 %
Total tons	41,209,880	
The total freight mileage is stated as follows:		
Through	2,118,199,501	34 91 %
Local	4,235,579,632	66.09 %
Total, or tons moved one mile	6,353,779,133	

The total freight mileage reported is a decrease of movement of 121,911,521 miles, or 1.88 per cent. from 1886. The through business fell off 2,108,867 tons, while the local traffic showed an increase of 2,910,198 tons, being a decrease and increase respectively of 5.53 per cent.

As analyzed and compared with like details for 1886, we have the following:

200 8 .	1886.	1887. Incres	se. Decrease.
Average ton, haul miles	160.25	154.17	6.03
Average am't received for each ton haul.	<b>\$</b> 1 <b>4</b> 2	1 37.7	<b>\$</b> 0 <b>04.3</b>
Average rate per ton per mile	0 00.890	0 01.090	0.00.200

As will be seen from the above comparison, the figures indicate a slight improvement upon the rates of the previous year, but still remain surprisingly low, and but a very small margin above the cost of movement. Charging freight earnings with three-fifths of the expenses (that being the proportion usually charged on freight account), and the net profit remaining for moving a ton of freight one mile is three and ninety-eight hundredths mills. For similar reasons stated in connection with the passenger traffic, I am unable to determine accurately the relative rates charged upon through and local traffic, but from deductions based upon the returns of companies showing local and through rates as charged separately, the average through rate would appear to be about \$0.00.60, and the average local about \$0.01.30 per ton per mile.

The following statement will afford a convenient reference to the rates reported by a number of the most important roads of the State, including those that receive the highest and lowest rates.

# Statement of Average Freight Rates, 1887.

Companies.	Average Local Rate.	Average Thro' Rates.	Average Rate for All Points,
Chicago & Grand Trunk	<b>\$</b> 0 <b>00.95</b>	\$0 00.52	\$0 00.59
Chicago & Nortwestern	0 01.04	0 00.94	0 01.08
Chicago & West Michigan	0 01.482	0 01.200	1 01.428
Detroit, Grand Haven & Milwaukee	0 01.91	0 00.45	0 01.20
Flint & Pere Marquette	0 01,861	0 00.717	0 01.86
Grand Rapids & Indiana	0 01.563	0 00.938	0 01.100
Lake Shore & Michigan Southern System	0 00.697	0 00.603	0 00.670
Michigan Central System	0 00,886	0 00.512	0 00.694
Milwaukee, Lake Shore & Western	0 01.608	0 00.978	0 01.86
Duluth, South Shore & Atlantic	0 02.30	0 00.98	0 01.70

No complaints have reached the department during the year of discrimination in freight charges, and it is fair, therefore, to presume that the law forbidding such practice has been observed by our freight agents with reasonable fidelity.

#### COMMODITIES MOVED.

You are respectfully referred to the tabular statement No. 12 for a complete classification of freights carried upon Michigan railroads during the period under report, with the aggregate and per cents of each. As elsewhere stated the total tonnage was 41,209,880, an increase upon the business of the companies this year reported of 5.46 per cent over that of the same companies for 1886.

#### MICHIGAN TONNAGE.

The freight forwarded from Michigan stations during the year was 17,292,-189 tons, which was in excess of movement for the preceding year 1,813,645 tons, or 11.71 per cent.

The per cents. of different commodities present no great fluctuations from reports of latter years, as will be observed from subjoined

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#### STATEMENT.

Classes of Freight Carried.	Per Cent.	Per Cent.	Per Cent.	Per Cent.	Per Cent,	Per Cent.	Per Cent.	Fron	1886.
Classes of Freight Carried.	1881.	1882.	1888.	1884.	1885.	1886.	1887.	of	Per Cent of Decre'se
1. Grain	17.76	13.89	14.77	14.85	15.21	12.63	9.35	<b> </b> -	8.28
2. Flour	8.58	3.60	3.06	3.62	3.85	2.22	2.63	.41	
3. Provisions (beef, pork, lard, etc).	2.14	1.99	2.08	2.16	2.31	2.97	2.55		.42
4. Animals	4.91	4.40	4.29	4.42	4.22	3.93	3.17		.76
5. Other agricultural products	2.72	2.40	2.89	2.53	8.34	5.05	2.71		2.34
6. Lumber and forest products	18.89	19.12	22.00	19.79	18.73	19.81	22.87	3 53	
7. Coal	11.03	11.54	13.06	14.02	14.98	18.77	12 84		.88
8. Plaster	.50	.81	.63	.64	.65	.67	.69	.02	
9. Salt	1.40	1.74	1.41	1.69	1.41	1.30	1.46	.18	
10. Petroleum and Charcoal	1.07	1.33	1.19	1.28	1.25	1.29	1.28		.00
11. Railroad iron, iron and steel rails	1.92	1.18	.62	-55	.63	.82	1.84	.52	
12. Pig and bloom iron	1.84	1.67	1.22	.92	1.07	1.12	1.25	.18	
13. Other iron and castings	1.39	1.76	1.76	1.56	1.66	1.97	1.87		.10
14. Ores	9.13	11.03	3.56	10.82	9.52	12.41	14.78	2.82	
15. Stone and brick	2.00	2.02	1.87	2.22	2.12	2.68	8.17	.49	
16. Manufactures—articles shipped from point of production	2.96	3.56	8.00	2.54	2.45	5.07	8.76		1.81
17. Merchandise and other articles not enumerated above	16.31	17.08	17.09	16.89	17.09	14.86	14.38		.48

I also continue our usual statement, to which your attention is directed, as presenting in brief form the number of tons of freight moved one mile and the average rate per ton per mile since the year 1873, the date of the first annual report to this office. It serves as a convenient reference for information with regard to volume of business in the consecutive years included, and the fluctuation of the freight rate relatively to the same.

#### STATEMENT OF TONNAGE AND RATE PER MILE SINCE 1873.

	Tons Carried One Mile.	Rate per Mile.
1874	1,932,955,796	<b>\$</b> 0 01.37
1875	1,954,003,452	01.20
1876	2,326,961,690	00.98
1877	2,292,655,424	01.03
1878	2,858,931,229	01.05
1879	3,598,676,485	00.92
1880	4,789,420,773	00.86
1881	5,747,847,621	00.92

	Tons Carried One Mile.	Rate per Mile.
1882	5,781,580,167	00.97
1883	6,235,081,222	00.99
1884	6,164,447,358	00.90
1884 1885	6,415,952,716	00.82
1886	6,475,690,954	00.89
1887	6,353,779,133	01.09

#### CLASSIFICATION.

The rule of classification of business as between local and through remains unchanged, but, under the operation of the interstate law regulating long and short haul, ceases to have much importance so far as it affects the question of rates. Our companies have modified their tariff sheets to meet the requirements of the federal law, and no notice of failure to comply therewith has reached this office. It seems probable from the short experience we have had, that the effect of the law is to be more uniform but increased rates, and that the railroads will therefore not be the losers by a strict observance of the regulations that prevent discrimination between competing and non-competing points.

#### EQUIPMENT.

The mechanical engineer now attached to this department, under the law of 1887, and who has been upon active duty since October of that year, reports the rolling stock in use upon the railroads of this State as generally sufficient to meet traffic requirements, and in good condition of repair. The estimated value of our equipments is stated at \$33,171,806.38, an increase of \$1,793,265.38, or 5.40 per cent upon the returns of 1886. Per mile of road this is \$2,779.86, an increase of \$472.86 during the year under report.

Continued activity in the shops of our companies has been maintained, and general immunity from accidents resulting from defective or weak machinery and cars has resulted. The sum expended for maintenance of motive power and cars during the year was \$8,129,537.58, and 15.52 per cent of the total expenses, a slight increase upon the expenditure for similar objects the preceding year. It was \$681.27 per mile of road, and \$0.14 per train mile, and 24.51 per cent. of the reported value of the equipment. The latter value indicates that the repair accounts have been charged with the cost of considerable additions of new rolling stock.

The following comprises a list of equipments as returned by the several companies reporting for 1887:

Locomotives, all classes	2,473
Passenger cars, all classes	1,142
Baggage, mail, and express cars	430
Box freight cars	39,363
Stock cars	5,396
Platform and coal cars	16,524
Ore cars	15,055
Conductors' way cars	1,218
All other cars	2,473
Total cars	81,601

The foregoing is one locomotive to a fraction over each five miles of track operated, and one passenger car to each eleven miles. Of freight and other burden cars, there are a fraction more than six to each mile of track. In another connection I make some comment with regard to recent legislation providing for the better safety of passengers and employés upon railroad trains by requirement of safety heaters upon passenger cars.

#### PERMANENT WAY.

Expenditures necessary for the maintenance of track and other road properties continue to be made with a liberal hand, and few or no accidents have occurred during the year attributable to neglected roadway. The expenditure for the year under report was \$11,266,038.62, a sum less than for similar expenditure the previous year by \$855,032.71, 7.57 per cent. The expenditure on this account was \$908.22 per mile of track operated, and \$0.19.46 per train mile.

The track sections, as reported, aggregate in number 1,022, with average length of 5.71 miles, and nearly four and a half men employed on each. With this force the properties have been maintained in creditable condition with but few exceptions, and derailments or other accidents resulting from weak or imperfect tracks have been of unfrequent occurrence.

#### TRACK RENEWALS.

#### Rails.

38,292.98 tons of new rails were placed in the tracks of Michigan roads within the limits of the State during the year, a renewal of 459.83 miles, or 7.80 per cent. of the whole track mileage, and an increase of 2.36 per cent. over similar improvements during the preceding year.

#### Ties.

4,153,870 ties were expended during the year upon the entire properties reported to this office, of which number 2,228,950, a fraction more than one-half, were used in this State, the average number to the mile being 381, and 13.60 per cent. of the average of ties to the mile of road.

# Trestles.

The work of replacing the perishable and expensive trestles, that are utilized for temporary purposes, by nearly all newly constructed roads, with earth work has been continued, and 6,010 lineal feet of the latter have been substituted for the former during the year.

# Culverts.

The renewals of timber culverts reported were 248, of which 46 were constructed of stone or iron pipe, 15 with sewer pipe, and the residue, 187, with timber. This class of openings are a source of constant concern to those charged with the maintenance of way, being fruitful sources of accident from concealed defects, and the liability to sudden injury from fire or heavy storms unforeseen by approaching trains. It cannot be too strenuously urged upon the consideration of our road departments that renewals of such structures, in the interest of both safety and economy, should be made in the most permanent manner possible.

#### BRIDGES.

The number of railroad bridges in the State at the close of the year was 2,276, an increase of 271, having an aggregate length of 281,222 feet, or 53. 26 miles. From the above it appears that the average length of bridges was 123½ feet, and one bridge for each 2.53 miles of track. I subjoin statement showing the character, number and length of bridges as reported in each class:

#### DESCRIPTIVE LIST OF RAILROAD BRIDGES IN MICHIGAN.

Character and Material of Bridge.	Number.	Length—
Wood	843	76,624
Stone or iron	119	14,729
Combination	39	9,886
Trestles	1,252	177,396
Draw bridges	23	2,634
Totals	2,276	281,222



# New Bridges.

Of the foregoing list 191 bridges are new, and are either of original construction on extensions and new road, or renewals of old structures, and are classified as follows:

Of wood, number	99;	feet in	length	8,417
Of iron or stone, number	2;	feet in	length	597
•				
	101;	feet in	length	9,014

In addition to these the Grand Rapids & Indiana returns 37 new bridges constructed on their line of road during the year, making a total of 138 for the period under report.

The descriptive lists of bridges, alluded to in our last annual report as in course of preparation, have all been completed, and the department is now in possession of full information with regard to this important class of structures, the value of which can hardly be overestimated.

#### CROSSINGS.

· Railroad.—The total number of railroad crossings reported for all the roads was 267, which presumably should have been 268, and would make 134 single crossing points within the limits of the State, 120 of which are at the grade level and 14 over or under the road first built. Interlocking and derailing switches, for the protection of grade crossings, are reported by the Michigan Central and Grand Rapids & Indiana at Wasepi; by the Michigan Central and Chicago & Grand Trunk at Nichols; by the Flint & Pere Marquette and Detroit & Bay City at East Saginaw; by the Toledo & South Haven and Chicago & West Michigan at Hartford, and the Mineral Range and Hancock & Calumet at Osceola, making in all five crossings so protected at the date of the last company reports. Since that time, interlockers have also been placed and are in operation at the crossings of the Michigan Central and Flint & Pere Marquette railroads at Wayne Junction; at the crossings of the Chicago & Grand Trunk railway, of the Lake Shore railway and Michigan Central railroad tracks at Lansing; and at the crossing of the Grand Rapids, Lansing & Detroit railroad (D., L. & N. extension) of the tracks of the Grand Rapids & Indiana, Michigan Central railroad at Grand Rapids; and the crossing of the Toledo, Ann Arbor & North Michigan railway of the Detroit, Lansing & Northern near Howell, making at the date of this report nine of these safety appliances in operation in this State. It would unquestionably be for the best interests of the public, as well as the companies, were every grade railroad crossing in the

State similarly protected—a subject to which I allude elsewhere in this report.

Highway and Street.—The total number of highway and street crossings reported at the close of the last year was 5,993, an increase of 28 upon the figures of the previous report. Of the whole number 257 were protected by gates or safety signals, and 189 were either over or under the tracks, the residue, 5,547, being at the grade level without other protection than the ordinary signal boards which are generally in position as required by law. The accidents reported at these exposed points during the year were 42, not a large number considering the fact that but few of the street crossings in our populous cities and towns are provided with either gates or safety signals, and the consequent liability to collisions is very large. Of the overhead highway bridges 98 are reported as being less than 18 feet above the tracks This class of structures have been generally provided with the spanned. safety signals as required by law, and but seven accidents were reported from overhead obstructions during the year. From the fact of such accidents occurring it appears that the signals in use do not fully protect; but it seems probable that they are as efficient as any that could be devised, and that raising the bridges to the height necessary to clear the heads of train men upon the roofs of the cars is the only expedient that will give absolute immunity from this class of accidents. In some cases such a height would be impracticable, and the adoption of power brakes obviating the necessity of brakesmen being employed overhead is the only remaining remedy for the great danger involved.

#### Fences.

Progress in the fencing of our railroad rights of way continues to be made, and we have a total completed, reported, of 8,302.29 miles, or 4,151 miles on both sides of the tracks. The mileage reported as remaining unfenced is 1,639.52.

#### STATIONS AND EMPLOYÉS.

Tabular statement No. 14 gives in comprehensive form the number of stations and employés, and classes of the latter as reported by the several corporations. It gives the whole number of stations at 2,467, and 1,267 located in Michigan. An increase over the previous report of 71, and the same increase as for the preceding year. It is a station for each 4.55 miles of track owned in the State, and affords ample facilities for the convenient handling of the traffic. The number of employés reported, for the entire lines was 55,536. Of the number, 21,800, or 39.25 per cent were employed in

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Michigan. An increase of 2,328 from 1886, and 32 men to each mile of road. These employés, as classified, appear as follows:

Statement showing Classification of Employés on Michigan Railroads, December 31, 1887.

Classes.	Number.
Baggagemen	758
Brakesmen	8,407
Conductors	1,780
Engineers	2,788
Firemen	2,811
Laborers	15,878
Shopmen	6,039
Yardmen	8,085
Others	18,747
Not classified	348
Total number	55,586

The relations between the managements and the employés have continued to be of a satisfactory character, and despite the feeling of unrest that has manifested itself in neighboring States, nothing has occurred here to interfere with the prevailing quiet so long characteristic of Michigan roads.

#### ACCIDENTS.

Your attention is respectfully called to tables 17 and 17 A, B, and C, for a detailed statement of the accidents occurring upon Michigan railroads during tee period under report. The total number resulting fatally was 142, an increase upon the previous year of 26. The accidents resulting in injury only in different degree, were 370, as against 311 during 1886, an increase of 59, making the total number of casualties 512, and total increase 85, during the year, or 19.45 per cent., a result not entirely satisfactory in view of the slight increase only of track, and decrease of train mileage, which were respectively 3.42 and 5.80 per cent.

Following is a classified statement, showing in detail the character and number of the persons included in the foregoing summary of accidents:

Persons.	Killed.	Injured.	Total.
Passengers	2	32	34
Employés	62	251	318-
Others	78	87	165
Total	142	370	512

Of these accidents 124 are reported as clearly accidental, 24.21 per cent, the residue being ascribed to lack of caution, which covers the misfortunes of 87 trespassers and tramps, and 39 "suicides and drunk." The above figures indicate that only one passenger for each 4,113,270 carried was killed, and one for each 2,883,265 injured; and one killed for each 4,801,933 miles traveled, and one for each 3,001,300 miles, injured. Of the employés one for each 353 was killed; and one for each 87 injured. For each 4,307,100 miles run one was killed, and for each 1,063,905 miles one was injured. The following table, prepared from the the accident reports, exhibits the causes of the casualties, with comparative statement of similar happenings for the previous year:

CASUALTIES	AND	CATISES	OF	SAME	1997
CADUALITAS	AND	CACOMO	O.F.	DAME	1001.

		Killed.			Injured.			Killed.	Inj <b>uré</b> d.	
Causes.	Passen- gers.	Em- ployes.	Others,	Total.	Passen- gers.	Em- ployes.	Others.	Total.	1886.	1886.
Collisions		2		2	9	9	2	20	6	23
Coupling cars		16		16		125		125	11	100
Derailments		2		2	9	9		18	1	20
Falling from trains		19	1	20	2	. 21	1	24	12	14
Frogs		2		2			 		1	8
Getting on and off trains.	2	8	 	5	9	20	5	84	12	38
At highway crossings		 	15	15			27	27	8	14
Miscellaneous causes		17	8	20	8	57	9	69	17	528
Overhead obstructions		2	<b></b>	2		5		5	1	2
Trespassers on trains		 	12	12			24	24	18	21
Trespassers on tracks	••••	1	47	48		1	23	24	89	24
Total	2	63	78	142	82	251	87	870	126	811

#### Collisions.

I regret that I am unable to report a decrease in this class of accidents during the year, but on the contrary the number shows an increase of 16 persons injured from such cause. As the report covers only the collisions involving personal injuries, and as the records of the office present a number of such accidents without such injuries, but resulting in greater or less destruction of property, I am forced to the conclusion that there is room for improvement in the handling of both road trains and yard engines, and I earnestly call the attention of managers to the unfavorable showing made by the re-

ports in this particular, with the hope that there may be a marked improvement in this particular during the current year.

# Coupling Cars.

From this prolific cause of injury to our trainmen, we have a report of 16 killed and 125 injured, an increase of 5 and 14 from similar casualties reported last year. From this result, it does not appear that the substitution of automatic for the old style of coupling has as yet begun to furnish anticipated results in the decrease of coupling accidents. It is but proper to say, however, that the per cent. of improved couplers as yet in use upon our freight cars is exceedingly small, and that the complication of the appliances adopted, it is possible, may have contributed largely to the increase of accidents under this head.

# Derailments.

From the above cause we have 11 injuries reported, two of which were fatal, resulting from eight accidents. This is an improvement upon the record of the previous year.

# Highway Collisions.

From this cause, as elsewhere stated, we have reported a total of 42 injuries, of which 15 have proved fatal. The casualty list is an increase of 20 upon the last report. The large number of accidents from this cause is a matter of deep concern at this office, and I have spared no reasonable effort in giving such increased protection at exposed points as would prevent recurrence of accidents with proper caution upon the part of citizens, who in many instances, I regret to say, exhibit lamentable lack of caution when approaching a railroad crossing, and come to grief through their own contributory negligence.

# Falling from Trains, etc.

Nineteen employés and a trespasser were killed and 2 passengers, 21 employés and a trespasser injured by falling from trains. Two passengers, the only two killed in the State during the year, and three employés were killed, and nine passengers, twenty employés and five trespassers injured while getting on and off trains in motion. Next to trespassing on tracks these seem to be the most fruitful sources of accident for persons not connected with road work, and in nearly every instance result from the own carelessness of the sufferers, and culpable disregard of regulations made for their protection

against injury. The utmost care of the train men in charge seems insufficient to protect thoughtless passengers from the evil results of their own indiscretion.

# Trespassers on Trains and Tracks.

From this cause we have a total of 60 persons killed and 48 injured, 108 in all, and a fraction of one-fifth of the entire casualty record for the year. I again call attention to this fearful source of slaughter and mutilation upon our railroad tracks, in the hope that intelligent legislation may be devised, that will largely abate the evil without serious detriment or inconvenience to the citizens contiguous to the rights of way.

The following list will show the class and number in each of employés killed and injured during the period under report:

Classified Statement of Employés Killed and Injured on Michigan Railroads during

Year 1887.

Baggagemen	1
Brakesmen	169
Conductors	
Engineers	4
Firemen	δ
Laborers	
Shopmen	5
Yardmen	
Unclassified	
Total	320

#### TAXATION.

The total of taxes payable by the railroad corporations doing business in this State during the year ending December 31, 1887, was \$715,640.24. Of this aggregate amount, the following sums were assessed against special charter roads, as computed on their stock and debt by the Auditor General, to wit:

Detroit, Grand Haven & Milwaukee	\$25,171	40
Lake Shore & Michigan Southern	46,743	60
Michigan Central	134,083	20
Grand River Valley	14,934	00

**\$220,932 20**.

Deducting this last amount from the aggregate of taxes \$494,708.04 as the total payable by the general law roads for gross receipts. This is an increase upon the income of the page \$65,168.10, or 15.17 per cent.	taxes upon their
The average number of miles operated was	5,675,97
Less mileage of special charter roads	
	5,065.23
Total gross receipts for Michigan	<b>\$31,001,296</b> 08
Less receipts of special charter roads	9,411,786 44
	\$21,589,509 64
The income per mile reported for general law roads	\$4,264 26
Per cent of taxation on income	
Taxes per mile of road operated	
Were all railroad taxes payable in the State computed upon	
the following would be the analysis as compared with the fore	
Gross receipts for Michigan	<b>\$31,001,296 08</b>
Taxable income per mile of road	5,461 85
Per cent of taxation on income	2.31
Taxes per mile of road operated	<b>\$</b> 126 08

As you are aware our method of dealing with railroad taxation is different from that adopted in nearly every other State, in most of which local taxation obtains. Under our constitution these taxes go to swell our school fund, and are distributed by the superintendent of public instruction among all the school districts in the State, according to the number of children in each. As at present assessed, railroad taxes will not be subject to the same fluctuations as other levies, which are governed by the rule of public need, but they will annually increase with the development of our railroad system, and form a permanent fund for the support of our common schools, which will share in the prosperity of our railroad properties to the full measure of their specific taxation.

# MECHANICAL ENGINEER.

At the earnest request of the locomotive engineers of the State the last Legislature by Act No. 247 provided for the appointment of a Mechanical Engineer for this department. His duties were, under the instructions of the commissioner, to make technical inspections and reports of the condition and working of all air and power brakes and fixtures, automatic or safety couplers, heating apparatus, train signals, and other appliances connected with the

construction and running of locomotive engines and cars, also the condition, character and working of yard and switch lamps, semaphore safety signals, switches, common and interlocking, frogs and guard rails, whether the same are blocked or otherwise treated as required by law, also of the condition and sufficiency of bridges and other structures connected with the permanent way, and of the condition and sufficiency of all equipments, freight and passenger houses as regards the public safety, health and convenience, and of such other matters and things as the commissioner deemed essential to full and thorough information as to the physical condition of the several railroad properties of the State and the proper enforcement of the police regulations enacted for the control and management of the same. The law also requires that he should have had at least ten years' experience in practical service as a railroad mechanic, etc. Under the provisions of this act, I appointed Clinton B. Conger of Port Huron, for many years in the employ of the Chicago and Grand Trunk railway, for the most part as locomotive engineer. He entered upon the discharge of his duties November 1, 1887.

He has been constantly employed since his appointment in the discharge of his duties, as provided by law.

He has spent the most of his time on the railroads. When not engaged in the regular inspections, he has been making special examinations in regard to blocking of frogs and guard rails, the condition of tracks and bridges and gathering statistics in regard to the amount and condition of railroad equipment. Having visited personally the shops of all the railroads operated in this State, and in addition to securing the information sought, he has been able to offer many valuable suggestions to the mechanics of the various roads so as to secure economy in operation, and at the same time provide more effectually for the safety of passengers and employés.

While engaged in this duty he has observed where the laws were being neglected or violated, and by giving information as to their requirements, and explaining the reason and necessity for their enactment and the consequences of their violation, has caused them to be more generally obeyed. While there are far too many violations of the laws, especially in regard to whistling at approaches to highways and stopping at crossings of other railroads, yet during the last year and a half, there has been a marked improvement in this respect. In addition to as far as possible, informing the employés what the law is, and the consequences of its violation, their manhood and sense of justice and reason have been appealed to to obey the law and rules, because it was right that they should be obeyed.

This policy has apparently resulted in better discipline on the roads and a desire among the employees to know just what the law is, in order



that it may be better observed, as proven by the requests received at the office for copies of laws and other information, and a consequent tendency to secure safety to passengers upon trains and people at highway and railroad crossings.

A few railroad managers did not look with much favor upon the creation of this office, but if any such feeling now exists, I am not aware of it. As far as expression of opinion has been given, it is to the effect that it is well to have some one not interested in the road, to look after the general condition of track and equipment, and report such defects as may have escaped the attention of the officer whose duty it is to look after it especially, and that the Engineer's intercourse with the men has made the enforcement of the rules and law easier, and that on the whole his services are worth to the people of the State much more than they cost.

I think the result of the first year's experience fully demonstrates the wisdom of the Legislature in deferring to the request of the railroad employés in the employment of a Mechanical Engineer to be taken from their number.

#### COMPLAINTS AGAINST EMPLOYÉS.

Very few complaints have been made against railroad employés during the past year, and in no case of the same person a second time. Most of those made have been for obstruction of streets, for a longer time than is allowed by law; not blowing the whistle at highway crossings, and the failure to make the stop required by law before crossing another railroad. It is hoped that the integrity and law-abiding sentiment among the men will be so aroused at an early day, that there will be very little cause for complaint of this kind in the future. If the men once become interested in the matter among themselves, violations of the laws and company regulations will soon cease, as is demonstrated by the result of their action for the repression of drunkenness, only one complaint of which among employees has reached the office during the past year, and that upon investigation, was not sustained. It is a result upon which the people of the State are to be congratulated, and one of which the men may justly be proud.

### AUTOMATIC COUPLERS.

The Janney and Dowling couplers have been approved for use since my last report, making nine in all. The Janney and Dowling are both vertical plane couplers of the Master Car Builders type, approved upon the application of the Grand Rapids & Indiana and Michigan Central companies respectively. The adoption of this type of couplers promises uniformity at an earlier date, because more companies with a large number of cars are fa-

vorable to them than any other; but there is almost as great a diversity of opinion in regard to the question as ever. There is some evidence that the Master Car Builders type is making friends among the train men, but as a rule they are against all automatic couplers, and it cannot be denied that the majority of those in use are worthless for the purpose for which they are intended, the protecting of the lives and limbs of employees. The latter fact and the uncertainty as to what the near future may develope has intefered with the vigorous enforcement of the law.

The following is suggested by the Mechanical Engineer of this department, as showing the present situation of the coupler question from a practical railroad man's standpoint.

The problem of the "best car coupler" seems to be as far from solution as ever. The old fashioned drawhead which requires a link and pin and also requires that a man must risk his limbs and sometimes lose his life in order to use it, still "holds the fort," and it will continue to do so until all styles of coupler using the link and pin are forced out of use. Of all the styles of self couplers none seem to be used as their inventors intended, unless two of the same kind come together, and then very few train men will use them without going between the ends of the cars. In the words of one brakeman, "each kind is worse than the other, and all are man-traps."

When the Master Car Builders type is the only one used, then, and not before, will we see car coupling and uncoupling done without going between the cars. It was hoped that the Master Car Builders, who can settle this question, would take some decisive steps to bring their type of coupler into immediate use on all railroads, but their want of any definite action leaves the matter just where it was a year ago, and the link and pin coupler, whether it is automatic or not, is killing and maiming numbers of our fellow-men each year. One great evil is directly in the power of the Legislature to abate, that is the long dead blocks or "bumpers" on some of the cars from the coal mining roads of Pennsylvania. None of the Michigan companies find it necessary to use them on their equipment, and there is a loud demand from the train men that they be excluded from the State by law. These dead blocks are so long, that they reach both above and below the drawhead and make it a certain injury to couple in the ordinary manner. They are not required in this State, and some action should be taken in regard to them at once.

#### POWER BRAKES.

Power brakes for freight trains are slowly making their way to the front. All the railway managers acknowledge that it is necessary to have them in order to make freight traffic safe and expeditious. There is no doubt that

with power brakes most of the train men who fall or are thrown from the top of cars when setting the hand brakes will be saved.

A large percentage of collisions which occur can be avoided altogether, and the force of the blow broken in the others, so that the damage will be smaller and loss of life averted by the use of power brakes. But most of the managers hesitate to adopt such appliance for their freight equipment, because it costs so much that the expense cannot be met without crippling other branches of their service, which they regard as equally important. Comparatively a small proportion of their freight cars are actually moving on their own lines, as in the interstate traffic they are distributed to all parts of the the country, and it is no advantage to them to put on extra attachments which they only have the use of a small portion of the time. To the use of the driver brake on all locomotives in this State no such objections can be made, as the engines are always in the company's service, if in use at all, and · the brake, when on driver and tender, is a reliable factor in a quick stop. If there is an air equipment on the engine, the additional expense of the driver and tender brake is very small compared with the advantage of having it in use every day, and for all stops.

There are several styles of driver brakes for steam pressure which are preferred by some of the mechanical superintendents to the one more gen-They can be applied to any class of engine for any service, and I believe if universally adopted would save the lives of many persons who are struck when walking on or crossing the tracks, and of employes who lose their lives in accidents, which would not have happened had there been some way of stopping the train other than by the slow way of hand brakes. brakemen must run from one brake to another when setting them, which necessitates time, when every second brings them nearer catastrophe. The power brake can be set at once and by the man who first perceives the danger. It can be made to hold every pound that the engine and tender weighs if necessary. On the other hand the brakes on a box car are generally arranged for the weight of that car when empty, or the wheels would slile, and when thirty tons are added to the burthen, the momentum of which each brake when applied must overcome, it takes a long distance in which to stop a loaded train.

Mixed trains of freight and passenger cars are run by nearly every management in this State, and on some of the roads where it is possible, driver brake engines are used to draw those trains, because they are believed to be safer.

Some of the managers would be glad to see a law enacted to compel railroad companies to equip all locomotives running in this State with driver and tender brakes, as they believe it is the easiest way to solve the freight brake problem at present. While a brake so applied will not hold an entire train. yet it is the most powerful aid now used on a train made up of cars belonging to many different companies, and if kept in order, is always available at an instants notice, no matter how stormy the weather, or dark the night may be. The power brake equipment of most of the roads in Michigan has been increased the past year to such an extent that before long the managers who believe in having sufficient brake power to protect the lives of employés and passengers and the company's property will have a power brake on every engine the company owns and on as many of their freight cars as possible. There are 2,473 locomotives in this State, 850 of which have driver brakes. The Lake Shore and Michigan Southern have power brakes on their entire equipment, the Michigan Central are supplying them as fast as possible, the Detroit, Lansing & Northern, Detroit, Bay City & Alpena, Chicago & West Michigan, the Grand Rapids & Indiana, the Flint & Pere Marquette, the Cincinnati, Wabash & Michigan, Wabash Western and all the roads in the Upper Peninsula are making good progress in this direction, while many others are using them to a limited extent.

I believe that the enactment of a law requiring every locomotive running in this State to be equipped with a driver and tender brake would meet with the cordial support of every railroad employé and a large share of the officials.

#### INTERLOCKING SWITCHES.

The interlocking switch and signal device is making its way into favor as well as into use. While at first the officials and employees did not like the derailing switch, both on account of the expense to the companies and the apparent complication of its many parts and liability to derangement, now that so many are in use in this State the train-men "wish that there were more of them on their line." Where one of these devices is properly put in, at a crossing of two roads, and a competent man in charge of the working of it, the trains do not stop and are rarely delayed for each other, so that the traveling public is more safely and expeditiously transported. There are now nine of these in working order and eighteen more being put in, as against six at the end of 1887. Some second-class interlockers are also being put in where logging roads cross a first-class railroad. This is a move in the right direction, as the logging roads cross the other tracks with their trains without much care for the saftey of the employees or passengers of the superior class road, so long as their own cars are not damaged. They are a constant menace to the life and limbs of the traveling public, and it is with a view to make these crossings safer that this move is being made for more certain pro-

tection than that which depends on the ideas of some minor employe, who is responsible for nothing. In the last ten years a great change has been made in the weight and speed with which all classes of trains are moved, and although the discipline is much stricter, and the punishment for violation of train rules and regulations more severe, yet the number of accidents at railroad crossings in this and the adjoining States is about the same. There is a strict law in this State in regard to stopping at railroad crossings, and being sure that the crossing is not likely to be obstructed before passing over the other track, and it is very well observed. But the time is so fast, and trains so heavy now, that without some mechanical protection at crossings, accidents must, in the very nature of things, continue to increase. which a few years ago ran their trains at a time card speed of about 25 miles an hour, and gave the public good satisfaction, now run from station to station at a high rate of speed, and the time lost in stops, which is measured by seconds sometimes, must be made up again or connections will be missed, and the passenger traffic will be interrupted. Competition is so fierce that the best possible time must be made, and to insure safety, and at as low a cost as may be, all stops possible must be avoided. Most of the roads are arranging their stations so that passengers, baggage and express on the cars, and coal and water on the engine, can be taken on at the same stop, and save time. By putting in interlocking switches at unimportant crossings the stops at which produce no revenue, but make an expensive loss of time, are done away with.

#### INSPECTIONS AND DEPARTMENT SERVICE.

The provisions of section 19 of the act under which this department is organized, requiring the Commissioner to visit each county of the State in which a railroad station is located at least once in each year, I have endeavored to conscientiously comply with, and to make the inspections as far from being of a perfunctory character as possible. The thorough performance of such duty has employed the larger portion of my time from May to September, both inclusive, and involved at least 15,000 miles of travel. In addition to the regular inspections above mentioned I have made almost innumerable trips to all portions of the State for the investigation of local complaints and inquiry into the causes of accidents, and the character of provisions necessary for the prevention of their recurrence. It is needless to suggest that the performance of these duties, of such paramount importance to the people of the State, has necessitated my absence from the capital a very considerable portion of the time, but I trust that it has surely resulted in the furtherance of the most important objects for which the department was created by the

Legislature. The duties devolved upon it by law have been largely increased by recent enactments. The people, too, are beginning to appreciate its usefulness in the settlement of vexed questions arising from their relations to the corporations, and the demand for the offices of the Commissioner in that regard is almost continuous, especially in the agricultural districts of the State. The correspondence of the office (before heavy) has more than doubled during the past year, and the rapidly increasing mileage of our railroads and the large increase of office work consequent thereupon, has taxed the capacity of our very limited office force to the utmost.

It is proper in this connection that I should recognize the valuable facilities afforded to me by the managements of the roads in connection with my inspections of their several properties. In all cases special trains have been supplied when requested, and I have had a willing coöperation upon the part of officials and employés alike, in all details necessary to the comfortable and successful accomplishment of my official purposes. For the many courtesies extended I avail myself of this medium to return thanks.

#### SAFETY HEATERS FOR PASSENGER CARS.

The law of 1887, requiring safety heaters in passenger cars, goes into effect November 1st next. The management of several of the longer and more important roads are experimenting with some form of steam heat from the locomotive, and are now equipping their cars to be warmed in that way. Companies with less passenger traffic are awaiting the result of such experiments, before making the changes contemplated by the law, upon their own roads, so far as authorized to do. In view of the lack of experience in warming cars by heat from the locomotive, and the severity of the climate, especially in the northern portion of our State, a somewhat conservative course has been taken by this office. The companies have been notified to remove all stoves and heaters of frail construction; but where the most approved hot water heaters are in use, they have been informed that this department would not order them out until it had been demonstrated that there was something better to take their place.

With few exceptions the railroad managements are using every effort to comply with the law as soon as means can be found to do it.

#### LOGGING AND FOREST ROADS.

Since my last report, the Attorney General has filed with this office his official opinion that this class of roads is subject to the police regulations prescribed by the general railroad laws of the State. But it would be well



for the Legislature to clearly define their status as their increasing numbers and frequent crossings of commercial roads, render some action in regard to them an imperative necessity.

#### TRACK.

There has been considerable improvement in the average condition of track in the State during the year. The tracks of most of the newly constructed roads are in excellent condition. They are substantially built and open up to communication large areas of country heretofore almost inaccessible. Where the roads run through a country without inhabitants, as a large portion of the new roads do, so far as the people's interests are concerned there is very little cause to complain of the condition of the track, equipment, or train service.

#### BUILDINGS.

Some of the older companies are building elegant and commodious station houses along their lines which are a credit to the officials that designed them, and an ornament to the towns in which they are located. This is especially true on the main line of the Michigan Central.

On some of the older roads where the station houses were built long ago, the towns in which they are situated have long since outgrown them. The earnings perhaps of such roads are limited, and the necessary appropriations of money for the renewal or enlargement of such structures are withheld to the great discomfort and inconvenience of the public where the improvements are needed.

In such instances it would seem necessary that the Legislature in the interest of the patrons of such companies should enact proper provisions for the correction of the evil. Station houses have been built for the common accommodation of the agent and section men at small stations on some of the new roads.

#### FENCES.

The railroad companies have met with severe losses of fence by fire during the present season, especially in the northern portions of the State. Railroads in the newer portions of the State are being fenced more year by year as settlements advance, and the demand for faster train service increases, making it a matter of necessity to exclude stock from the track. There has been less complaint in regard to the condition of railroad fences than heretofore, except in case of two new roads along which the fence is not yet completed. The

law prescribing how a right of way fence shall be constructed proves acceptable so far as the building of a suitable fence is concerned. The fence composed of six wires, top-board and cap, is the one almost universally adopte l. It is a great hardship to farmers when a new road is built through improved farms to give the railroad companies until three months after they commence the operation of the road in which to build their right of way fence. Even where roads are financially strong and comply with the law the fields are usually open over a year. And with companies of limited means it is frequently two years before the fences are completed, even though every effort is made by this office to that end.

Under the provisions of the law the roads may be estopped from running trains until the fence is built, but it is something like imprisonment for debt, it does not build the fence, and takes away in some cases the only means of earning money to build the fence which the road has, besides discommoding the public. Some means for the relief of farmers in such cases should be provided.

#### CONCLUSION.

In the discharge of the varied and increasing duties of this commission I have been largely aided by the Deputy Commissioner and the Mechanical Engineer in the faithful performance of the work incidental to their respective positions, and also by the efficient and consistent service of the clerk, whose employment has been found absolutely necessary for the prompt transaction of the business devolved upon the office by law, and so authorized by the Board of State Auditors.

In conclusion I desire to express my appreciation of the moral and material support which my official acts have seemed to command at your hands.

Very respectfully, your obedient servant,

Commissioner of Railroads.

# APPENDIX.

SIXTEENTH ANNUAL REPORT

OF THE

# COMMISSIONER OF RAILROADS

OF THE

STATE OF MICHIGAN,

1888.

# TO RAILROAD MANAGERS AND EMPLOYES.

Office of The Commissioner of Railroads, Lansing, Mich., Dec. 15, 1887.

Whereas, Complaints are being received at this office of the violation of certain laws which are designed for the safety of property and the protection of the lives of employés and passengers. Therefore this circular is designed to call your attention specifically to some of the more important. The law which provides for the stopping of all trains not less than two hundred feet nor more than eight hundred feet from the crossing is one of the utmost importance. The practice of reducing the speed of trains without coming to a full stop, will not answer; some very serious results have occurred from the practice. Engineers should be particular to stop their trains within the limits prescribed by the law. The two hundred feet between the stop and the crossing is to provide for safety in case the brakes fail to act, or from any cause the train does not stop, and the limit should never be passed intentionally. Target-men should always keep the target set to danger on both tracks, and should change it only after the train has come to a full stop within the limits prescribed by law.

Engineers should be particular to sound the whistle for every highway crossing; it is many times the only notice travelers have of the approach of trains.

The attention of agents and train-men is earnestly called to the necessity of keeping cars from obstructing any portion of a street or highway for more than five minutes at a time. The practice or leaving only a passage way cannot be too severely censured, and is not a compliance with the law.

• The penalty which the law imposes for a violation of its provisions, is liable to be enforced against any one disregarding it any time.

Every effort will be made on the part of this office to enforce all laws which provide for the comfort and safety of passengers, the public and the employés. This effort however energetically made, will fall far short of complete

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success, unless seconded by the assistance of all connected with the railroad operations. I therefore earnestly request your hearty co-operation to this end, not on account of the penalties which the State law imposes, but to avoid the much more severe penalties which natural laws impose for a neglect of the necessary precautions to prevent accidents.

I trust that I may rely upon your honor as men and citizens to obey the law and rules of railroad companies, which by a provision of law are made a part of the law, and which experience has demonstrated are necessary to secure safety for yourselves, and those whose lives are entrusted to your care.

Yours respectfully,

JOHN T. RICH,

Commissioner of Railroads.

# STATE OF MICHIGAN. OFFICE OF THE COMMISSIONER OF RAILBOADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

Application having been made by the Grand Rapids & Indiana Railroad Company for the official approval of the Commissioner of Railroads, of the Janney Automatic Freight Car Coupler, for use on the said Grand Rapids & Indiana Railroad, pursuant to the provisions of Section 1, Act No. 147, of the Session Laws of 1885, as amended by Act No. 88, Session Laws of 1887. And the undersigned, Commissioner of Railroads in and for said State aforesaid, having made a careful examination of said coupler, and become fully satisfied of its practical value, and that it meets the requirements of the laws of this State, in accordance with the true spirit and intent thereof;

Therefore, The said Janney Automatic Freight Car Coupler is hereby approved, and authorized to be used upon all railroads in this State, from and after the date hereof.

In Witness Whereof, I have hereunto set my hand, and caused the Seal of the Department to be affixed at the Capitol, in the City of Lansing, this 24th day of January, A. D. 1888.

JOHN T. RICH,

[SEAL.]

Commissioner of Railroads.

STATE OF MICHIGAN.
OFFICE OF THE COMMISSIONER OF BAILBOADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

Application having been made by the Michigan Central Railroad Company for the official approval of the Commissioner of Railroads, of the Dowling Freight Car Coupler, for use on the said Michigan Central Railroad, pursuant to the provisions of Section 1, Act No. 147, of the Session Laws of 1885, as amended by Act No. 88, Session Laws of 1887. And the undersigned, Commissioner of Railroads in and for said State aforesaid, having made a careful examination of said coupler, and become fully satisfied of its practical value, and that it meets the requirements of the laws of this State, in accordance with the true spirit and intent thereof;

Therefore, The said Dowling Freight Car Coupler is hereby approved, and authorized to be used upon all railroads in this State, from and after the date hereof.

In Witness Whereof, I have hereunto set my hand, and caused the Seal of the Department to be affixed at the Capitol in the City of Lansing, this 15th day of March, A. D. 1888.

JOHN T. RICH,

[SEAL.]

Commissioner of Railroads.

# Official Orders issued by the Commissioner of Railroads of the State of Michigan for the year ending Sept. 30, 1888.

	Date.	' To whom directed.	Brief of order.
1	1887. Nov. 28	To the Detroit, Grand Haven & Milwau- kee Railway Company.	Special order to erect and maintain safety gates at the crossing of Taylor and Quinby streets in the city of Grand Rapids.
2	Dec. 5	David Robison, Jr., president Toledo, Saginaw & Muskegon Railroad Com- pany.	Special order to cease running trains across C. & W. M., G. R. & I., D. L. & N., and Stanton branch roads, until interlocking and deraling switches have been put in and in operation.
8	Dec. 6	James M. Ashley, Jr., vice president To- ledo, Ann Arbor & Cadillac Ry.	Special order forbidding trains to be run across G. R. & I. R. R. crossing at Cad- illac until agreements have been com- plied with and interlocker switch erected and in use.
	Dec. 8	To the Chicago & Grand Trunk and the Lake Shore & Michigan Southern Rail- ways and the Michigan Central Rail- road Companies.	Special order permitting trains and engines to pass over the several tracks of the Chicago & Grand Trunk and Lake Shore & Michigan Southern Railway and the Michigan Central Railroad Companies, without stopping, subject to certain regulations, on and after the 12th day of December, 1887.
5	Dec. 8	To P. P. Wright, general superintendent Lake Shore and Michigan Southern Railway Co.	Special order to flag all trains crossing Shiawassee street in the city of Lansing.
6	Dec. 10	To W. J. Spicer, general manager Chicago & Graud Trunk Railway Company.	Special order to station and maintain a fiagman at the Main street in the village of Perry.
7	Dec. 14	To W. J. Spicer, general manager Chicago & Grand Trunk Railway.	Special order to erect and maintain safety gates at the Washington avenue and Cedar street crossings in the city of Lansing.
8	Dec. 80	To James M. Ashley,Jr. vice-presidentand general manager Toledo, Ann Arbor & Cadillac Ry.	Special order permitting trains to be run between Mt. Pleasant and Cadillac not to exceed fifteen miles per hour.
9	Dec. <u>*</u> 80	To the Toledo, Ann Arbor & Cadillac Ry. and Grand Rapids & Indiana Railroad Company.	Special order permitting the trains of the Toledo, Ann Arbor & Cadillac to cross the tracks of the Grand Rapids & Indiana, subject to certain conditions and regulations.
10	Dec. 31	To E. C. Brown, general superintendent of Michigan Central, lessee of Jackson, Lansing & Saginaw Railroad Company.	Special order to erect and maintain gates at the South Washington street crossing East Saginaw, within four months from date, and to station a flagman thereat until erected.
11	Dec. 81	To William J. Spicer, general manager Chicago, Detroit & Canada Grand Trunk Junction Ry., and P. P. Wright, general superintendent Lake Shore & Michigan Southern Railway.	Special order to erect and maintain safety gates at the Ferry street crossing, city of Detroit, within six months from date, and to station a flagman thereat until erected.
12	Dec. 81	To E. C. Brown, general superintendent Michigan Central Railroad Company.	Special order to erect and maintain an alarm bell at the East avenue crossing, and to station a flagman at Michigan avenue, both in the city of Kalamazoo.

## Official Orders issued, etc.—Continued.

	Date.	To whom directed.	Brief of order.
18	1888. Jan. 24	To general managers and superintendents of all railroads in the State.	General order approving and granting permission to use the Janney Automatic Freight Car Coupler on all railroads in the State.
14	Mch. 5	To Andrew Watson, general superintendent Duluth, South Shore & Atlantic Ry	Special order to station and maintain a flagman at the State street crossing in the city of St. Ignace.
15	Mch. 19	To the Chicago, Kalamazoo & Saginaw Railroad Company.	Special order and determination relative to the location and character of a farm crossing upon the farm of Alvin E. Phillips in the county of Barry.
16	Mch. 15	To general managers and superintendents of railroads in the State of Michigan.	General order approving and granting permission to use the Dowling Freight Car Coupler on all railroads in the State.
17	Apr. 9	To the Cincinnati, Jackson & Mackinaw Railroad Company.	Special order relative to the erection of a bridge for a farm crossing for the estate of William F. Wirt, county of Hillsdale.
18	May 14	To the Grand Rapids, Lansing & Detroit Railroad, Toledo, Saginaw & Muskegon and Toledo, Ann Arbor & North Mich- igan Railways and Toledo, Saginaw & Mackinaw Railroad Companies.	Special order relative to the construction of necessary farm crossings before the first day of July, 1888.
19	June 16	To the Michigan Central and the Flint & Pere Marquette Railroad Companies.	Special order approving the interlocking and derailing switch at the crossing at Wayne Junction and permitting trains to pass over said crossing without stopping, subject to certain rules and regulations.
20	July 18	To the Michigan Central, Grand Rapids & Indiana, and Grand Rapids, Lansing & Detroit Railroad Companies.	Special order approving the interlocking and derailing switches and signals at the crossing of the several tracks in the city of Grand Rapids, and permitting engines and trains to pass over said crossing without being brought to a full stop, subject to certain rules and regulations,
21	Aug. 6	To the Toledo, Ann Arbor & North Michigan Railway and the Detroit, Lansing & Northern Railroad Com- panies.	Special order approving the interlocking and derailing switches at the crossing of the two roads near the village of Howell and permitting the engines and trains to pass over said crossing without being brought to a full stop, subject to certain rules and regulations.
23	Aug.28	To the Toledo, Ann Arbor & North Michigan Railway, and the Detroit, Lansing & Northern Railroad Companies.	Special order modifying the order of Aug. 6th, relative to the interlocking switch near Howell, specifying the color of lights to be need at said crossing by said Detroit, Lansing & Northern Railroad Company.

## STATEMENT.

OF NEW RAILROAD CORPORATIONS FORMED, AND RE-ORGANIZATIONS, AMENDMENTS OF OLD CHARTERS AND MISCELLANEOUS CHANGES SINCE DATE OF THE LAST
REPORT FROM THE COMMISSIONER OF RAILROADS, AS SHOWN BY RETURNS FROM THE
OFFICE OF THE SECRETARY OF
STATE, OCT. 1, 1888.

## NEW CORPORATIONS.

BATTLE CREEK & BAY CITY RAILWAY COMPANY.

Termini, Battle Creek to Bay City. Proposed length, 130 miles. Capital Stock, \$2,500,000. Articles filed February 21, 1888.

LANSING ST. JOHNS & NORTHERN RAILROAD COMPANY.

Termini, Lansing to Ithaca. Proposed length, 47 miles. Capital Stock, \$500,000. Articles filed, February 23, 1888.

NORTH BRANCH & SAUBLE RIVER RAILROAD COMPANY.

Termini, North branch Pere Marquette River Section 21, T. 18 N., R. 15
W., to Section 5. T. 19 N., R. 15 W.

Proposed length, 12 miles.

Capital Stock, \$50,000.

Articles filed, June 8, 1888.

NEGAUNEE & PALMER RAILROAD COMPANY.
Termini, Negaunee to Palmer.
Proposed length, 10 miles.

Capital Stock, \$100,000.

Articles filed, June 30, 1888.

PORTAGE RAILROAD COMPANY.

Termini, Section 28, T. 53 N, R. 32 W., to Section 17, T. 53 N., R. 32 W. Proposed length, 6 miles. Capital Stock, \$100,000. Articles filed, July 31, 1888.

QUINCY & TORCH LAKE RAILROAD COMPANY.

Termini, Quincy Mine to shore of Torch Lake, Lot 2, Section 23, T. 55 N., R. 33 W.

Proposed length, 8 miles.

Capital Stock, \$50,000.

Articles filed, June 29, 1888.

SAULT STE MARIE RAILWAY COMPANY.

Termini, N. W. corner Claim No. 2, to mouth of Mission Creek.

Proposed length, 6 miles.

Capital Stock, \$100,000.

Articles filed, December 5, 1887.

ST. IGNACE, SAULT STE. MARIE & NORTHERN RAILWAY COMPANY.

Termini, St. Ignace to point on the Minneapolis Sault Ste. Marie & Atlantic Railway Company, between Trout Lake & Pine River Stations.

Proposed length, 25 miles. Capital Stock, \$250,000.

Articles filed, April 13, 1888.

Toledo, Ann Arbor & Lake Michigan Railway Company.

Termini, Cadillac to Frankfort.

Proposed length, 60 miles.

Capital Stock, \$1,200,000.

Articles filed, March 29, 1888.

CENTRAL MICHIGAN RAILROAD COMPANY.

Termini, Rogers City and South Line of Michigan in Branch county.

Proposed length, 330 miles.

Capital Stock, \$3,000,000.

Articles filed, September 7, 1888.

COLUMBUS AND LAKE MICHIGAN RAILROAD COMPANY.

Termini, State Line, Hillsdale county, to point on Lake Michigan, Town-

ship of Saugatuck.

Proposed length, 125 miles. Capital Stock, \$1,000,000.

Articles filed, September 7, 1888.

#### CONSOLIDATIONS.

CANADA & ST. LOUIS RAILWAY COMPANY.

Formed by the consolidation of the Sturgis and State Line Railway Company, and the Indiana & South Western Railway Company.

Capital Stock, \$2,500,000.

Agreement filed, November 17, 1887.

Indiana & Lake Michigan Railway Company.

Formed by the consolidation of the Indiana & Lake Michigan Railway Company of Michigan, and the Indiana & Lake Michigan Railway Company.

Capital Stock, \$800,000.

Agreement filed, March 30, 1888.

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MINNEAPOLIS, St. Paul & Sault Ste. Marie Railway Company.

Formed by the consolidation of the Minneapolis, Sault Ste. Marie & Atlantic Railway Company, Minneapolis & St. Croix Railway Company, Minneapolis & Pacific Railway Company, and the Aberdeen, Bismark & Northwestern Railway Company.

Capital Stock, \$21,000,000.

Agreement filed, June 13, 1888.

Toledo, Ann Arbor & North Michigan Railway Company.

Formed by the consolidation of the Toledo, Ann Arbor and Cadillac Railway Company, with the Toledo, Ann Arbor and North Michigan Railway Company.

Capital Stock, \$5,300,000.

Agreement filed, April 20, 1888.

#### AMENDMENTS.

DULUTH, SOUTH SHORE & ATLANTIC RAILWAY COMPANY. Increasing number of Directors. Filed August 20, 1888.

FRANKFORT & SOUTH EASTERN R. R. Co. Changing Gauge. Filed November 16, 1887.

GOGEBIC & MONTREAL RIVER RAILROAD COMPANY. Changing Route. Filed July 3, 1888.

## EXPENSE ACCOUNT

OF THE DEPARTMENT FROM OCTOBER 1, 1887, TO SEPTEMBER 80, 1888.

Express charges, distribution of books and blanks	\$152	00-
Incidentals	. 40	38-
Maps of Michigan		28
Office library, books, reports and journals		30-
Postage		00
Printing and binding		18
Special inspections, pay of engineers, &c		60
Stationery, including paper for blanks		24
Telegraph and telephone service		17
Traveling expenses	524	58
Total	•9 069	72

# REPORTS

0F

# RAILROAD COMPANIES,

1887.

#### ANNUAL REPORT

OF THE

# DETROIT, LANSING & NORTHERN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed February 15, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary and Treasurer, CHAS. MERRIAM, Boston, Mass.

General Auditor, C. W. COURTRIGHT, Boston, Mass.

Assistant Treasurer, JAMES E. HOWARD, Detreit, Mich.

General Manager, JNO. B. MULLIKEN, Detroit, Mich.

General Superintendent, THOS. M. FISH, Ionia, Mich.

General Traffic Manager, WM. A. CARPENTER, Detroit, Mich.

Superintendent, N. W. MERRILL, Saginaw, Mich.

Chief Engineer, J. J. McVEAN, Ionia, Mich.

Superintendent of M. P. & R. S., GEO. C. WATROUS, Ionia, Mich.

General Accountant, JAS. F. REEKIE, Detroit, Mich.

Assistant Gen. Freight Agent, EDWARD F. BAKER, Detroit, Mich.

General Solicitor, C. B. LOTHROP, Detroit, Mich.

#### DIRECTORS.

\*ALPHEUS HARDY, Boston, Mass. H. H. HUNNEWELL, Boston, Mass. GEO. O. SHATTUCK, Boston, Mass. CHAS. L. YOUNG, Boston, Mass. CHAS. MERRIAM, Boston, Mass.



<sup>\*</sup> Deceased.

CHAS. F. ADAMS, Boston, Mass.
NATHANIEL THAYER, Boston, Mass.
JAS. H. BLAKE, Boston, Mass.
A. H. HARDY, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
E. V. R. THAYER, Boston, Mass.

Terms all expire second Wednesday in May, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—December	26, 18	376.		
Number of stockholders at date of last election,	-	_	-	478
Number of stockholders in Michigan at same date,	_	-	٠.	1
Amount of full paid stock held in Michigan at same date,	_	-	-	<b>\$10,500 00</b>
Date of annual meeting of stockholders,—Second Wednesd	lay in	May	٠.	
Fiscal year of Company ends December 31.				
General offices of the Company are located at Boston, Mass	., and	l Deti	roit, l	Mich.

## GENERAL EXHIBIT.

		DEBIT.		CREDIT.	
-	-	<b>\$</b> 696,114	- 55	<b>\$</b> 1,147,159	99
-	-		_	\$451,045	44
-	-				
-	-		-	\$177,348	84
-	•	<b>\$</b> 230,465	00		
-	-	<b>\$</b> 53,116	16		
-	- -	<b>\$</b> 141,533	87	<b>\$</b> 19 <b>4</b> ,650	03
		<b>\$194,650</b>	03	<b>\$194,650</b>	03
Dece	mber 81.	, 1886	<b></b>	54,76	35 00
	Dece	s ending Dece	\$696,114  - \$269,650 - 4,046 \$230,465 - \$53,116 - \$141,533 \$194,650  s ending December 81, 1886. December 81, 1886.	\$230,465 00 \$53,116 16 \$141,533 87 \$194,650 03 s ending December 31, 1886	\$1,147,159  \$696,114 55  \$451,045  \$269,650 00 4,046 60  \$177,348  \$230,465 00 \$53,116 16  \$194,650  \$194,650

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or Par value of shares,	_ {	cles o \$100 43,3	00	sociation,	-	<b>\$4,410,000</b>	00
Amount paid in on common,		_ `	_	\$1,825,600	00		
Amount paid in on preferred,	-	-	-	2,510,000			
Total amount paid in, as per	boo :	ks of	the	Company,	_	4,335,600	00
Paid in per mile of road owned by 221.57 miles,	•	-	y, -	<b>\$</b> 19,567	63		

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amouut Outstanding.
First mortgage bonds, 1876	7	1907	Boston, Mass.	\$2,487,000 00
Ionia & Lansing Railroad has first mortgage bonds, 1869	8	1899		770,000 00
Total funded debt	• • • • • • • • • • • • • • • • • • • •	•••••		<b>\$3,257,000 00</b>

## UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		
For equipment		
		l .
		i
For miscellaneous	Į.	
For current balances	,	
		\$420,770 2

## RECAPITULATION.

Total funded debt, - Total unfunded debt,	-			-				<b>\$</b> 3,257.000 00 <b>4</b> 20,770 28
Total debt liabilities,	-	-	-	-	-	-	-	\$3,677,770 28
Amount of debt liabilities	per	mile	of ro	ad,—2	21.57	miles,	_	16,598 68
Total amount of stock and Stock and debt per mile of			- 21.57		-  -			8,013,370 28 36,166 31

## GENERAL BALANCE SHEET.-DR.

Construction account		_	_	_	_			\$6,816,972	63
Equipment account,		_	_	_	_		_	622,975	
Cash items:							_		- •
Cash,			_	_	_	\$96,853	91		
Bills receivable,	•	-	_	_		19,760	00		
Due from agents,	•	-	-	•	-	12,216			
Duo II van agonio,	-	-	-	-	•			128,830	61
Other assets:								120,000	U.
Materials and supp	lice					\$32,634	. 54		
Sinking funds,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		-	-	186,447			
Debit balances from	- oomn	ania	and i	ndiv	idnala:		UI		
Suspense account,	comp	all 10	s and i	Huiv	iuuais,	119,469	79		
D., L. & N. commo		- ماد .	aorin	-	-		. 00		
		JUK 1	scrip,	•	-	34,963			
Chas. Merriam, tru	BLUU,	-:-	о <del>г</del> о	α <u>-</u>	-				
Saginaw Valley & S	or. In	ou18	n. n.	Oo.,	-	66,665	0%		
New shop account,	lonia	a, _	-	-	-	94,291			
Steel rail suspense			-	-	-	12,555		•	
Suspense account, I			~ ~	-	-	4,510			
Grand Rapids, Lane	sing d	τD.	K. K.,	<b>, -</b>	-	34,518	38	****	٠.
								586,125	84
Total,	-	-	-	-	-		-	<b>\$</b> 8,154,904	15
			_						
•	GENI	CRAI	L BAL	ANC	E SHE	Е <b>Т</b> ,—Св.			
Capital stock,—comm	on a	nd p	referre	d,	-		-	<b>\$4,335,6</b> 00	
Funded debt,	on an	nd p -	referre -	ed, -	-	· ·	-	<b>\$4,335,600 3,257,000</b>	
Capital stock,—comm Funded debt, Unfunded debt:	on an	nd p -	referre -	ed, -	-	· ·	- -		
Funded debt,	on an - -	nd p - -	referre - -	ed, - -	-	  \$567	50		
Funded debt, Unfunded debt: Interest unpaid,	-	nd p - - -	referre - - -	ed, - - -	- -		50 00		
Funded debt, _ Unfunded debt: . Interest unpaid, Dividends unpaid,	-	<u>.                                    </u>	referre - - - -	ed, - - -	- - -	91	00		
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable,	- - -	-	- - - - -	ed, - - - -	-	91 164,000	00 00		
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord	- - - ints,	-	- - -	ed, - - - - -	-	91	00 00		
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and according to the liabilities (list a	- - - ints, as foll	- - - lows	- - - - :	-		91 164,000 97,594	00 00 78		
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and according to the liabilities (list a Accrued coupon interests)	- - - ints, as follerest	- - - lows (not	- - - - ): : due),			91 164,000 97,594 134,825	00 00 78		
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and according to the liabilities (list a	- - - ints, as follerest	- - - lows (not	- - - - ): : due),			91 164,000 97,594	00 00 78	3,257,000	00
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan	- - - ints, as foll erest taxes	lows (not	- - - ): due), 1887,			91 164,000 97,594 134,825	00 00 78	<b>3,257,000 420,77</b> ()	28
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and according to the liabilities (list a Accrued coupon interests)	- - - ints, as foll erest taxes	lows (not	- - - ): due), 1887,			91 164,000 97,594 134,825	00 00 78	3,257,000	28
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incompands	- - - ints, as foll erest taxes	lows (not	- - - ): due), 1887,			91 164,000 97,594 134,825	00 00 78	420,770 141,533	28 87
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan	- - - ints, as foll erest taxes	lows (not	- - - ): due), 1887,			91 164,000 97,594 134,825	00 00 78	<b>3,257,000 420,77</b> ()	28 87
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incompands	- - - ints, as foll erest taxes	lows (not	- - - ): due), 1887,			91 164,000 97,594 134,825	00 00 78	420,770 141,533	28 87
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,	- - - ints, is follorest taxes ome a	lows (not for	- - - - : due), 1887, ants,	-		91 164,000 97,594 134,825 23,692	00 00 78	420,770 141,533	28 87
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,		lows (not for		- - - - - - -	•	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 -	420,770 141,533 *8,154,904	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,		lows (not for		- - - - - - -	•	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 -	420,770 141,533 *8,154,904	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,  Total Cost for Construct		lows (not for OF 1	- - - - - - 1887, ants, - - ROAD	AND	Road a	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 -	420,770 141,533 *8,154,904	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or inco Total,  Total Cost for Construct  Total expended for co		lows (not for OF )	): tdue), 1887, ants, .	AND	Road a	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 - -	420,770 141,533 *8,154,904	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,  Total Cost for Construct		lows (not for OF )	): tdue), 1887, ants, .	AND	Road a	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 - -	3,257,000  420,770 141,533  \$8,154,904  iit by Compan	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,  Total Cost for Construct  Total expended for co Average cost per mile of miles,	- ints, ints, is follorest taxes ome s - COST ion an nstru of ros	lows (not for of land Equation and (1	): tdue), 1887, ants,  ROAD quipme n and not inc	AND	Road a	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 - -	3,257,000  420,770 141,533  \$8,154,904	28 87 15
Funded debt, Unfunded debt: Interest unpaid, Dividends unpaid, Notes payable, Vouchers and accord Other liabilities (list a Accrued coupon int State of Michigan  Profit and loss or incord Total,  Total Cost for Construct  Total expended for co Average cost per mile of	- ints, ints, is follorest taxes ome s - COST ion an nstru of ros	lows (not for of land Equation and (1	): tdue), 1887, ants,  ROAD quipme n and not inc	AND	Road a	91 164,000 97,594 134,825 23,692 	00 00 78 00 00 - -	3,257,000  420,770 141,533  \$8,154,904  iit by Compan	28 87 15

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

No debits to construction or equipment accounts during the year 1887.

Total charges to property a	1CCO1	unt as	abov	' <b>0</b> ,		_	No	ne.
Earnings of the sinking fu struction account,	.na 1	or yea	- -	- -		-	<b>\$</b> 9,226	26
Net credit to property	800	ount,	-	-		-	\$9,226	26
A	NAI	LYSIS	OF I	EARNI	NGS.			
	PA8	SENGE	R EA	RNING	18.			
Main line and branches:					`.			
Local fares,	-	-	-	-		-	\$355,747	
Through fares,	-	-	-	-		-	33,863	18
Total passenger fares,	-	-	-	-		-	\$389,611	13
Express and baggage,							15,166	27
Mails,	-	-	-	-		-	28,769	
Total passenger earnin	ıgs,	-	-	-		-	<b>\$433,54</b> 6	47
Proportion for Michigan	,	-	-	٠.	<b>\$</b> 433,546		20	
Per train mile, Per mile of road,—268.1	7 m	iles,	-	-	1,616	86.8 69	88	
	F	REIGH'	T EA	RNING	8.			
Main line and branches:					•			
Local traffic,	_	_	_	_	\$629,756	57		
Through traffic,	-	_	-	-	73,067			
Total traffic,	-	-	_		\$702,824	28		
Other sources freight de	part	ment,	-	-	1,512	05		
Total freight earnings	3,	-	-	-		_	\$704,336	3 <b>3</b>
Proportion for Michigan					<b>\$704,336</b>	33		
Per train mile.	,	-	-	-		72.8	34	
Per mile of road,—268.1	7 m	iles,	-	•	2,626			
Total transportation e	arni	ings,	-	-		-	\$1,137,882	80
Transportation earnings p	ar	ila of	Pos	d				
268.17 miles, _	-	_		_	<b>\$4,24</b> 3	14		
Transportation earnings 906,500 miles,	per	train	mil	e,—	-	25.8	(9	
900,000 miles,	-	-	-	-	1	<i>2</i> 0.8	) <i>(</i> 0	

1887.]	DETROIT, LA	rustu	G- occ 1	NORT	HEKN	KAI	LKUAI	) U	J.	"
	for transport						6,455	ΩR		
From telegraphic From other se	pn, _ ources, _	-	-	-	-	•	2,822			
	,								** a ***	
Total,		-	-	-	-	-	-	-	\$9,277	19
Total ear	nings from o	perat	ion of	roac	i,	-	-	-	\$1,147,159	99
Total earning Total earning Proportion of Total taxable	s per train taxable ear	mile,- nings	–906, for M	,500 r Lichi	niles, gan,			26. 99	55	
Michigan,	. 41	- :	-	-	-		4,277			
Income other	TUNU ILOM	armin	gs,	-	-		No	ne.		
Total inc	ome from al	l sour	ces,	-	-	-	-	-	<b>\$1,147,159</b>	99
Proportion of	income for	Mich	igan,	-	-	1,1	<b>17,</b> 159	99		
		ANAL	RISY	of E	XPEN	ses.				
	CLASS 1	-Main	tenan	æ of	Way o	ınd B	uilding	<b>78.</b>		
Repairs of ros			-	-	-	- :	- 6,920	42	<b>\$</b> 99,625	51
Renewals of t	ies, _	_	-	-	_	_	_	_	26,080	
Repairs of br						le gu	ards,	-	9,925	90
Repairs of fer Repairs of bu		rossin	gs, ar	ia sig	ns,	•	-	-	6,286 19,727	
Mopulis of ou		-	•	-	•	•	-	-		
Total,		-	-	-	-	-	-	-	<b>\$</b> 15 <b>4</b> ,725	84
	CLASS 2.—A	(ainter	ance	of Mo	tive P	ower	and C	ars.		
Repairs of lo	comotives.		_	_	_	_	_		<b>\$40,101</b>	24
Repairs of pa		- , <b>-</b>	-	-	-	_	-	_	34,341	97
Repairs of fre	eight cars,	-	-	-	-	-	-	-	36,286	66
Total,		-	-	-	-	-	-	-	\$110,729	87
	CLASS	3.—C	onduc	ting	Transj	portai	ion.		•	
Fuel for locor		-	_	-	-	_	· <u>-</u>	-	<b>\$75,70</b> 6	
Water supply,		-	-	-	-	-	-	-	3,574	
Oil and waste		•	-		-	-	-	-	8,581	
Locomotive se Passenger train		-	-	•	•	-	-	-	68,849 19,653	
Passenger trai		•	-	-	•	-	•	-	3,265	
Freight train	service.	-	-	-	-	-	-	•	28,607	
Freight train	supplies.	•	-		-	-	-	•	499	
	A A									

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Detroit to Howard City, August, 1871.
From Stanton Junction to Big Rapids, July, 1880.
From Alma to Howard City, August, 1886.

MAIN LINE.	Mila	OOtha 1	Miles, 100ths.
In Michigan: From Detroit to Howard City,		6 60	Alios. Ioonis.
Total length completed,	-	-	156 60
BRANCHES.			
Stanton Branch, from Stanton Junction to Big Rapids, Belding Branch, from Kiddville to Belding,		3 30 1 67	
Total length of branches owned by Company,	-	-	64 97
Total length of branches owned by Company in Michigan, Total length of road belonging to this Company, Total length of road belonging to this Company in Michi-	- -	4 97	221 57
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,  Aggregate length of tracks in Michigan belonging to this Company, computed as single track,  Gauge of track, 4 feet 8½ inches.	-	1 57 <sub>,</sub> - 1 66	80 09
Proprietary or Leased Roads Operated by this C	ompany		
Proprietary or Leased Roads Operated by this C			n Michigan.
Proprietary or Leased Roads Operated by this Contained Roads Operated Roads Op	Total M		3 00 1 00 42 60
Name, description, and length of each: Michigan Central R. R., Detroit to West Detroit, Michigan Central R. R., Lansing to North Lansing,	Total M	00 00	3 00 1 00
Name, description, and length of each: Michigan Central R. R., Detroit to West Detroit, Michigan Central R. R., Lansing to North Lansing, Saginaw & Western R. R., Alma to Howard City,	Total M	00 00 60 60	3 00 1 00 42 60
Name, description, and length of each: Michigan Central R. R., Detroit to West Detroit, Michigan Central R. R., Lansing to North Lansing, Saginaw & Western R. R., Alma to Howard City,  Total,	3 1 42 46 268	00 00 60 60	3 00 1 00 42 60 46 60
Name, description, and length of each: Michigan Central R. R., Detroit to West Detroit, Michigan Central R. R., Lansing to North Lansing, Saginaw & Western R. R., Alma to Howard City,  Total,  Total miles operated by the Company,	3 1 42 46 268 gan. feet, feet,	00 00 60 60	3 00 1 00 42 60 46 60
Name, description, and length of each:  Michigan Central R. R., Detroit to West Detroit,  Michigan Central R. R., Lansing to North Lansing, Saginaw & Western R. R., Alma to Howard City,  Total,  Total miles operated by the Company,  Number of Bridges and Trestles in Michigan  Wooden bridges, number of,38, aggregate length, Iron bridges, number of,20; aggregate length	3 1 42 46 268 gan. feet, feet,	00 00 60 60	3 00 1 00 42 60 46 60 268 17 3,372 1,795
Name, description, and length of each:  Michigan Central R. R., Detroit to West Detroit,  Michigan Central R. R., Lansing to North Lansing,  Saginaw & Western R. R., Alma to Howard City,  Total,  Total miles operated by the Company,  Number of Bridges and Trestles in Michigan  Wooden bridges, number of,  20; aggregate length, Wooden trestles, number of,  31; aggregate length,	3 1 42 46 268 gan. feet, feet,	00 00 60 60	3 00 1 00 42 60 46 60 268 17 3,372 1,795 2,391
Name, description, and length of each:  Michigan Central R. R., Detroit to West Detroit,  Michigan Central R. R., Lansing to North Lansing, Saginaw & Western R. R., Alma to Howard City,  Total,  Total miles operated by the Company,  Number of Bridges and Trestles in Michigan  Wooden bridges, number of,	3 1 42 46 268 gan. feet, feet,	00 00 60 60	3 00 1 00 42 60 46 60 268 17 3,372 1,795 2,391

What railroads cross your road at grade in this State, and at what locality? Flint & P. M. R. R., at Plymouth.

Michigan Air Line R. R., at South Lyon.
Chicago & Grand Trunk R. R., at Trowbridge.
Detroit, Grand Haven & Milwaukee R. R., at Ionia.
Toledo, Saginaw & Muskegon R. R., at Greenville.
Toledo, Saginaw & Muskegon R. R., at Sheridan.
Grand Rapids & Indiana R. R., at Big Rapids.

Grand Rapid	8 06 1	naian	8 R.	K., at	Big .	каріа	8.		•	
What railroads and where? Under grade: Toledo, Ann Cutler & Say	Arbo	or & N	Torth	Mich	igan i	R. R.,	•			
At what crossing	waa a	ra int	er Co.	ring o	v yuiz	II. Tailin	a awit	ohaa	in anare	ation?
None.	rge a	IO III	011001	ring a	nu uc	1 411111	S DAIL	Спев	ın opera	
Number of cro	ssing	s of h	nighw	ays at	grad	e in th	is Sta	ste,	-	349
Number of cro	ssing	s of	highv	ays s	it gra	de in	this	State,	at	
which there	are g	ates o	r flag	men,	-		-			6
Number of cro	ssing	s at v	hich	there	are e	electri	c or a	utom	atic	· 3T
signals, _ Number of cr	- Magin	- - ^f	hial	. WO WO	-	- - AP 1	- andor	- roils	- hee	None.
(over, 7; un			пя	1 W 0 J 0	0.461	01 (	under	1 9111	Uau	12
Number of his	rh way	brid:	ges. 1		abov	e trac	k.	•	-	7
Number of hig								track.		None.
Have safety-gu										${f Y}$ es.
Are your frogs			rails	block	ed as	requi	red by	Act 1	74,	<b>57</b>
Session Law			-	-	-	-	-	-	-	Yes.
How are they t	ireate	ur meed								
Hair Buar	. 10	ubou	•							
				S	tation	8.				
3T 1 6 4		,		•						<b>8</b> /1
Number of sta Same in Michi				-	-	-	-	-	-	71 71
Dame in Michi	gan,	-	-	-	-	-	-	-	-	11
				E	mploy	ė <b>s.</b>				
					٠,	,,				
Number of per	rsons	regu	arly	emplo	yed o	n all	roads	opera	ited	- 926
by Company Same in Michi		nama	ошс	iuis,	-	-	-	-	-	926
Classify your e		vés as	oer i	- follow	ing li	st:	-	-	•	0.20
oracing joint o	F	<i>J</i> ••• •••	, ,,,,,		8					Number.
Baggagemen,-	-traiı	1, _	-	-	-	-	-	-	-	9
Brakemen,	-	-	-	-	-	-	-	•	•	47
Conductors,	-	-	-	-	-	-	-	-	-	26 41
Engineers,	-	•	-	-		-	-	•	-	41
Firemen, Laborers, Shopmen,	-	-	-	-	-	-	-	•	-	305
Shopmen.	-	-	-	-	-	-	_	-	-	191
Yardmen,	-	-	-	-	-	-	-	-	_	18
Others,	-	-	-	_	-	-	-	-	<b>-</b> ,	248
									•	
Total,	-	-	-	-	•	•	-	-	-	926

## REPAIRS AND RENEWALS.

## Fencing in Michigan.

How many miles of fencing have you?  Give the number of miles required to comsides of your track, in Michigan, and the					<b>543</b>
needed,	-	-	-	-	All fenced.
Road Bed and Tr	rack.				
Number of track sections in Michigan,	_	_		_	56
Average length of sections (miles),	-	_	-	_	5.50
Average number of men in each section gang	r.	_	_	_	3
Number of new ties put in whole line during		788.T.	_	_	90,633
Number of new ties put in track in Michiga		-	_	-	90,633
Average number of new ties per mile of road		68.17	mile	98.	338
New rails put in track:	۰., ۰.			,	
Steel [tons 900], miles,					10.35
Total miles of track laid with new rails,	-	-	-	-	10.35
20001 MILOS OI DIGOR IGIA WIDE HOW IGIIS,	-	-	•	-	10.00
Bridges and Culv	erts.				
Amount of trestle work replaced with earth	duri	ing t	he ye	ar	
(linear feet),	-	-	. •	_	144
Timber culverts replaced during the year,		-	_	_	7
With iron pipe,—number,		-	_	_	3
With sewer pipe,—number,	_	_	_	_	3
With timber,—number,	_	_	_	_	ī
New bridges built during the year, -number,		<u>.</u>	-	_	6

Location.	Kind.	Material.	Month built.	Feet in length.
Flat River and Six Lakee	Iron plate girders	Wooden approaches,	January	10
East of Elwell	Pile bridge	Wood	February	5
East of Elwell	Pile bridge	Wood	February	7
East of Edmore	Pile bridge	Wood	March	4
North of Fenwick	Pile bridge	Wood	April	5
West of Williamston	Pile bridge	Wood	May	4
Total	<u> </u>			87

·		
ROLLING STOCK.	Number.	Present Estimated Value,
Number of locomotives of more than 30 tons weight,		TREATTIMOOT A STITE
exclusive of tender,  Number of locomotives of 20 to 30 tons weight,	35 ,	<b>\$</b> 171,000 00
exclusive of tender,	6	24,000 00
Total,	41	<b>\$</b> 195,000 00
Number of massenger come Curbool including		
Number of passenger cars—8-wheel, including	29	92,000 00
official cars,	13	19,500 00
Number of box freight cars,	404	121,200 00
Number of stock cars,	41	12,300 00
	549	137,250 00
Number of platform cars,	27	
Other cars as follows:	21	7,000 00
Tool cars, 1; painter's car, 1; kitchen car 1; tender to steam shovel, 1; road train sleeper, 1,	5	3,000 00
Total,	1,068	<b>\$</b> 392,250 00
Number of locometives equipped with power brakes, Number of passenger-train cars equipped with power brakes, Number of freight cars equippel with power brakes, What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brake, Are your freight cars being equipped with automatic by Act No. 147, Session Laws of 1885? Yes. What pattern or patterns have you adopted for use? Testing the "Cowell" and "Blocker" patterns.	20 42 None. 62 couplers	as required
MILEAGE, TARIFF, ETC.		
1rain Mileage.		
Miles run by passenger trains during the year, Miles run by freight trains during the year,	 	498,986 407,51 <del>4</del>
Total mileage of trains earning revenue,		906,500
Passenger Traffic.		
Numbers as	ıd	<b>.</b>
` Quantities		Rate.
Number of through passengers carried, _ 16,10	0	
Number of local passengers carried, _ 573,91	7	
	_	

Total number of passengers carried,

590,017.

Total passenger mileage, or passe Average distance traveled by eac				ne mile	e, 1	Miles. 15,201,855 25.77	Rate.
Average amount received from ea				-	-		<b>\$</b> 0 66.03
Average rate of fare per mile for					-		2.48
Average rate of fare per mile for	local	pass	enger	18,			2.57
Average rate of fare per mile for	all p	ssen	gers,	_	-	<b>-</b> . <b>-</b>	2.56
F	reight	Tra	Mc.				
Number of tons of through frei Number of tons of local freight	ght c	arrie d,	d, -	42,77 <b>45</b> 3,40			
Total tons of freight carried	,	-	-	496,12	21		
Total mileage of through freight, Total mileage of local freight,		<u>.</u>	-	-		6,691,378 37,691,919	
Total freight mileage, or ton	is car	ried (	one m	ile,	-	44,383,297	
Average ton haul for through from	eight.		_	_	_	156.65	
Average ton haul for local freigh		_		_	_	83.13	
Average ton haul for all freight,		_	_	-	_	89.46	
Average amount received for eac		hau	l,	-	_		1 41.66
Average rate per ton per mile, rec	oeived	for	throu	gh fre	igh	t,	01.092
Average rate per ton per mile, re	cei ve	d for	local	freigl	ht,		01.671
Average rate per ton per mile, re	œi ve	l for	all f	reight	,		01.583
Freight forwa	rded o	ut Mic	higan	Statio	ms.		Forwarded.
	rded (	ıt Mic	higan	Statio	ms.		Forwarded, Tons.
Freight forwa	rded ( -	ut <b>M</b> ic	rhigan -	Statio	ms. -		
	-	-	-		-		Tons.
All Michigan stations,	-	-	-		-	 oad.	Tons. 496.121
All Michigan stations,  Tonnage of Artic  Grain Flour,	- des Tre - -	-	-		-	oad. Tons. 44,111 15,315	Tons. 496.121  Per Cent. 8.89 3.09
All Michigan stations,  Tonnage of Artic  Grain Flour,	- des Tre - -	-	-		-	coad. Tons. 44,111 15,315 1,593	Tons. 496.121  Per Cent. 8.89 3.09 .32
All Michigan stations,  Tonnage of Article  Grain. Flour, Provisions (beef, pork, lard, etc., Animals,	- des Tre - -	-	- rted - -	Entire - -	- Ra		Tons. 496.121  Per Cent. 8.89 3.09 .32 2.39
All Michigan stations,  Tonnage of Article  Grain. Flour, Provisions (beef, pork, lard, etc., Animals, Other agricultural products,	- des Tre - -	-	- rted - -	Entire - -	- Ra		Per Cent. 8.89 3.09 .32 2.39 3.86
All Michigan stations,  Tonnage of Article  Grain. Flour, Provisions (beef, pork, lard, etc., Animals,	- des Tre - -	-	- rted - -	Entire - -	- Ra	Tons. 44,111 15,315 1,593 11,850 19,186 310,250	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53
Tonnage of Articological Series of Articological Serie	- - - - -	- unspo - - - -	- rted— - - - -	Entire - -	- Ra		Tons. 496.121  Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04
Tonnage of Articological Services of Articol	- - - - -	- unspo - - - -	- rted— - - - -	Entire - -	- Ra	Tons. 44,111 15,315 1,593 11,850 19,186 310,250 15,070 4,945	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00
Tonnage of Articological Salt,  Tonnage of Articological Salt,	- - - - - - - -	- unspo - - - - -	- rted - - - - -	Entire - -	- Ra	Tons. 44,111 15,315 1,593 11,850 19,186 310,250 15,070 4,945 5,300	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07
Tonnage of Articological Series of Articological Serie	- - - - - - - -	- unspo - - - - -	- rted - - - - -	Entire - -	- Ra		Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84
Tonnage of Articological Series of Articological Serie	- - - - - - - -	- unspo - - - - -	- rted - - - - -	Entire - -	- Ra	Tons. 44,111 15,315 1,593 11,850 19,186 310,250 15,070 4,945 5,300 9,111 4,685	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84 .94
Tonnage of Artico Grain. Flour, Provisions (beef, pork, lard, etc., Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Railroad iron, iron and steel rail Other iron and castings, Stone, brick and sand,	- - - - - - - - - - - - -	- znspo - - - - - - - -	- rted— - - - - - - - - -	Entire	- Ro		Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84 .94
Tonnage of Artico Grain. Flour, Provisions (beef, pork, lard, etc., Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Railroad iron, iron and steel rail Other iron and castings, Stone, brick and sand, Manufactures,—articles shipped	- - - - - - - - - - - - -	- znspo - - - - - - - -	- rted— - - - - - - - - -	Entire	- Ro	Tons. 44,111 15,315 1,593 11,850 19,186 310,250 15,070 4,945 5,300 9,111 4,685 8.162	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84 .94 1.65
Tonnage of Artico Grain. Flour, Provisions (beef, pork, lard, etc., Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Railroad iron, iron and steel rail Other iron and castings, Stone, brick and sand, Manufactures,—articles shipped tion,			rted—	Entire	- Ro		Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84 .94 1.65
Tonnage of Artico Grain. Flour, Provisions (beef, pork, lard, etc., Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Railroad iron, iron and steel rail Other iron and castings, Stone, brick and sand, Manufactures,—articles shipped			rted—	Entire	- Ro	Tons. 44,111 15,315 1,593 11,850 19,186 310,250 15,070 4,945 5,300 9,111 4,685 8.162	Per Cent. 8.89 3.09 .32 2.39 3.86 62.53 3.04 1.00 1.07 1.84 .94 1.65

#### ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company. They handle their own freight.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 256.87 miles.

The line belongs to this Company but is worked under contract with the Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company, Chicago, Ill.; \$792.12. They are allowed mileage between Detroit and Howard City.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Detroit Iron Furnace Company, Detroit, Mich.,	<b>\$</b> 192	07
Empire Line, Philadelphia, Pa.,	63	48
Merchants' Despatch, Trans. Co., New York City,	665	45
National Despatch Line, St. Albans, Vt.,	609	26
Union Line, Pittsburgh, Pa.,	207	97
Pittsburgh & Toledo Despatch, Alleghany, Pa.,	101	57
E. C. Walker, Detroit, Mich.,	13	21
Railway Car Association, Rochester, N. Y.,	8	63
D. W. Parker, Kalamazoo, Mich.,	4	12
W. P. Rend, Chicago, Ill.,	3	72
Union Tank Line, New York City,	1	59
Anglo-American Produce Co., Chicago, Ill.,	1	51
Total.	<b>\$</b> 1,872	58

The above includes mileage made on S. V. & St. L. R. R.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

January 21. J. E. Minkley, freight brakeman, Remus, stepped into open culvert; lack of caution; verdict, Company not responsible.

July 30. Hattie Shaver, Lakeview, highway collision; carelessness; ver-

dict, employés not blamed.

July 30. Hattie Reynolds, Lakeview, highway collision; carelessness; verdict, employés not blamed.

August 5. Geo. Hawley, Lyons, body found on track; was intoxicated a

few hours previous; Company exonerated.

August 6. Thos. Brown, Island Lake; suicide; verdict, Company exonerated.

September 15. Frank Martin, trespasser, Fowlerville; jumping from train; carelessness; Company exonerated.

November 3. J. F. McKinney, freight brakeman, Belding; jumping on engine; carelessness; Company exonerated.

#### INJURED.

January 8. D. D. Sallsbury, freight conductor, Howell; coupling; purely accidental.

January 8. J. W. Edwards, freight brakeman, Detroit; walked into round house pit; purely accidental.

January 13. Robt. Hagarty, freight brakeman, Okemos; cleaning lantern globe; purely accidental.

February 1. Luther Green, section laborer, two miles west of Portland; struck by engine; lack of caution.

March 10. Mrs. Mary Pedder, Trufant; highway collision; carelessness.

May 7. Frank Phillips, Remus; chain breaking; lack of caution.

May 27. E. J. Nugent, freight brakeman, Beech; coupling; la caution.

June 3. C. L. Soper, freight brakeman, Howard City; coupling; purely accidental.

July 3. Geo. Reeder, freight brakeman, Howell; coupling; purely accidental.

July 30. Fannie Shaver, Lakeview; highway collision; carelessness.

July 30. Chas. Whitbeck, Lakeview; highway collision; carelessness.

July 30. Fred. Hatch, Lakeview; highway collision; carelessness.

August 20. Aug. Heiden, laborer, Eagle; tackle breaking; purely accidental.

September 3. Chas. Stewart, trespasser, Stark; jumping from train; carelessness.

October 10. R. Herrick, trespasser; Edmore, jumping from train; carelessness.

December 21. Emery Morse, passenger, Beech; jumping from train; carelessness.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.	Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passon gers.	Employés.	Oth	
Collisions							
Coupling cars		1			4		
Derailments							
Falling from trains							
Frogs					}		
Getting on and off trains		1		1			
Highway crossings			2	 			
Miscellaneous					5		
Overhead obstructions							
Prespassers on trains			1				
Trespassers on tracks			2	ļ			
Total		2	5	1	9		

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	_	-	7
Number of persons injured during the year,	-	-	-	-	16
Number of casualties purely accidental,	_	_	_	-	6
Number resulting from lack of caution, careles	saness,	or mi	scond	uct,	17
Persons killed or injured while intoxicated,	_ `	_	_		1
Trespassers and tramps killed or injured,		_	_	_	4
Spicides.					1

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	2	6	8
Conductors		1	1
Engineers			
Firemen			
Laborers		2	2
Shopmen		<i>'</i>	
Yardmen			
Not classified above			
Total	2	9	11

STATE OF MICHIGAN, SS.

Jno. B. Mulliken, General Manager, and James E. Howard, Assistant Treasurer, of the Detroit, Lansing & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JOHN B. MULLIKEN.

Subscribed and sworn to before me this 15th day of February, A. D. 1888. HENRY H. JAMES, Notary Public, Wayne Co., Mich.

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JAMES E. HOWARD.

## ANNUAL REPORT

#### OF THE

## SAGINAW & WESTERN RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed February 15, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary and Treasurer, JAMES E. HOWARD, Detroit, Mich.

Transfer Agent, CHAS. MERRIAM, Boston, Mass.

#### DIRECTORS.

JAS. H. BLAKE, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
ALPHEUS HARDY, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
NATHANIEL THAYER, Boston, Mass,
EUGRNE V. R. THAYER, Boston, Mass.
CHAS. L. YOUNG, Boston, Mass.
CHAS. F. ADAMS, Boston, Mass.
Terms all expire May 9, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 7,	, 1883.				
Number of stockholders at date of last election,	-	-	-	•	9
Number of stockholders in Michigan at same date,	-	-	-	-	None.
Amount of full paid stock held in Michigan at same date	9, _	-	-	-	None.
Date of annual meeting of stockholders,—The second V	Vedne	sday	in M	ay.	
Fiscal year of Company ends,—December 31.					
General offices of the Company are located at Detroit, h	<b>fichig</b>	an.			

<sup>\*</sup> Deceased.

## REMARKS.

This property is leased by the Detroit, Lansing & Northern Railroad Co. for the term of thirty (80) years from July 1, 1888, that company guaranteeing the principal and interest of the bonds issued, and a dividend of seven (7) per cent on the capital stock of the Saginaw & Western Railroad Company.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	_	<b>\$675,000 00</b>
Par value of shares, \$100 00		•
Average price received per share, 100 00		
No. of shares issued, 45		
Amount paid in on common, \$4,500	00	
·		
Total amount paid in as per books of the Company,	-	<b>\$4,5</b> 00 00
Paid in per mile of road owned by Com-		
pany,—42.60 miles, \$105	<b>63</b>	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.			
First mortgage bonds	6	1918	Boston, Mass,	\$566,000 00			
Total funded debt							

#### UNFUNDED DEBT.

No unfunded debt.

## RECAPITULATION.

Total funded debt, -	-	-	-	-	-	-	-	<b>\$</b> 566,000	00
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$</b> 566,000	00
Amount of debt liabilities	per	mile	of roa	d [4	8.60 n	niles],	<b>-</b> .	13,286	39
Total amount of stock and Stock and debt per mile of	debi	t, _ d,		-	-		-	570,500 13,392	

## Interest on the Funded Debt.

What is the amount of the same due each year,	<b>\$33,960 00</b>
Was it paid for the last year?	Yes.
If interest is in default state the years and amounts as follows:	All interest
has been paid.	

## COST OF ROAD AND EQUIPMENT.

## Total Cost for Construction and Equipment of Road, and Branches Built by Company,

Total expended for construction, Total expended for equipment,	-	-	-	-	- -	\$558,400 12,100	
Total cost of construction and e	quipı	nent,	- 1	-	-	\$570,500	00
Total cost of construction and equip Average cost of construction per mi					- ling	13,392	02
sidings) 42.60 miles,	-	-	٠.	_	-	13,107	98
Proportion of cost of construction for	or Mi	chigar	1,	_		558,400	00

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: August, 1886.

## MAIN LINE.

					Miles. 10	iles. 100ths.		
Length completed in Michigan,	-	-	-	-	42	60		
Total length completed,  Total length of road belonging to the	- ia Can	-	•	-			42 42	
Total length of road belonging to				in			4.0	UU
Michigan, Aggregate length of sidings, spurs a	nd ot	- her tra	- icks	- not	42	60	•	
above enumerated, Same in Michigan,	-	-	-	-	9	12	9	12
Aggregate length of tracks belonging computed as single track,	g to t	his Co	mpa	ny,			51	79
Same in Michigan,	-	-	-	-	51	72	31	120
Gauge of track, 4 feet 81 inches.								

STATE OF MASSACHUSETTS, SS. COUNTY OF SUFFOLK.

Chas. Merriam, Director, and James E. Howard, Secretary of the Saginaw & Western Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, CHAS. MERRIAM, Director, JAMES E. HOWARD, Secretary.

Subscribed and sworn to before me this 7th day of February, A. D. 1888, by Chas. Merriam.

[L. 8.]

F. H. DAMON,

Notary Public.

Subscribed and sworn to before me this 2d day of February, 1888, by J. E. Howard.

HENRY H. JAMES, Notary Public, Wayne Co., Mich.

#### ANNUAL REPORT

#### OF THE

# SAGINAW VALLEY & ST. LOUIS RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed February 15, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JNO. B. MULLIKEN, Detroit, Mich.

Secretary and Treasurer, JAS. E. HOWARD, Detroit, Mich.

General Auditor, C. W. COURTRIGHT, Boston, Mass.

General Manager, JNO. B. MULLIKEN, Detroit, Mich.

General Superintendent, THOS. M. FISH, Ionia, Mich.

Superintendent, NATHAN W. MERRILL, Saginaw, Mich.

General Traffic Manager, WM. A. CARPENTER, Detroit, Mich.

Chief Engineer, J. J. McVEAN, Ionia, Mich.

Superintendent of M. P. & R. S., GEO. C. WATROUS, Ionia, Mich.

General Accountant, JAS. F. REEKIE, Detroit, Mich.

Assistant Gen. Freight Agent, EDWARD F. BAKER, Detroit, Mich.

General Solicitor, C. B. LATHROP, Detroit, Mich.

#### DIRECTORS.

H. H. Hunnewell, Boston, Mass.

\* Alpheus Hardy, Boston, Mass.
Chas. Merriam, Boston, Mass.
Nathaniel Thayer, Boston, Mass.
Wm. Y. Means, Boston, Mass.
Walter Hunnewell, Boston, Mass.
Geo. O. Shattuck, Boston, Mass.
Chas. L. Young, Boston, Mass.
Jas. H. Blake, Boston, Mass.

<sup>\*</sup> Deceased.

JNO. A. BURNHAM, Boston, Mass.

E. V. R. THAYER, Boston, Mass.

F. H. DAMON, Boston, Mass.

C. S. SERGEANT, Boston, Mass.

Terms all expire second Wednesday in July, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May 17th, 18	71.				
Number of stockholders at date of last election,	-	-	-		88
Number of stockholders in Michigan at same date,	-	-	-		70
Amount of full paid stock held in Michigan at same date, .		-	-	\$32,200	00
Date of annual meeting of stockholders, Second Wednesday	in J	uly.			
Fiscal year of Company ends December 81.	•				
General offices of the Company are located at Detroit, Mich.					

#### REMARKS.

This road is operated under lease by the Detroit, Lansing & Northern Railroad Company.

## GENERAL EXHIBIT.

			DEBIT.	CREDIT,		
Total income,	-	-		\$99,784 25		
Total expenses, including taxes,	-	-	<b>\$</b> 76,566 17			
Net income,	•	-		\$23,218 08		
Interest on funded debt,	-	-	35,680 00			
Balance for the year,	-	-	\$12,461 92			
Balance (profit and loss) last year,	-	-	73,059 24	•		
Balance forward to next year,	-	-		85,521 16		
			\$85,521 16	\$85,521 16		

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or ar Par value of shares, No. of shares issued, Amount paid in on common,	<b>\$1</b> 00 00 2,55 <b>3</b> _ 255,300 00	00
Amount paid in on shares not issue ber, 95.04),	9,504 01	
Total amount paid in, as per bo		Л
Paid in per mile of road owned b pany,—miles, 35.50,		

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.	
First mortgage bonds, 1873	8	1,902	New York city	\$446,000 00	
Total funded debt				\$446,000 00	

#### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
Por construction		
For equipment		
For real estate		
For renewals		
For miscellaneous	To be paid	\$77,596 6
For current balances	To be paid	14.884 8

## RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-			-		\$446,000 00 92,430 99
Total debt liabilities.	_		_	_	_	-	\$538,430 99

1887.] SAGI	NAW V	ALL	EY &	ST. L	OUI8	RAI	LROAD	CO.		25
Amount of debt lis	abilities	per	mile (	of ros	ad,—3	5.50	miles,	-	\$15,167	07
Total amount of st Stock and debt per				5.50 r	niles,	-	-	-	803,235 22,626	
	GEN	ERAL	BAL	ANCE	SHE	ЕТ,-	-Dr.			
Construction account Equipment account Cash items:			-	-	-	<u>-</u>	-	-	\$59 <b>4,</b> 390 87,037	
Cash, Other assets:	-	-	-	-	-	-	-	-	1,390	03
Debit balances fr Ithaca Extension,	-	-	-	_	ividua -		23,786	21 ·		
Saginaw & G. R. R	. R. sto	ck a	ccoun	t, _	-		11,110		34,896	21
Income account,	-	-	-	-	-	-	-	-	85,521	
Total,	-	-	-	-	-	-	-	-	<b>\$</b> 803,235	00
•	GE	NER#	L BA	LAN	E SH	EET	',—Cr.			
Capital stock, _ Funded debt, _	-	-	-	-	-	-	-	-	\$264,804 446,000	
Unfunded debt: Interest unpaid,	-	-	-		•	-	- \$120	-	***************************************	00
Vouchers and acc Other liabilities (li	counts, st as fo	- llows	): -	-	-		2,869			
Accrued coupon State of Michiga	interest	t not	due,	1. 18	- 88.		5,946 1,995			
Saginaw & Grand Detroit, Lansing	l Rapid	ls R.	R. Če	o.,	-		13,033 66,665	27		
Due other railro	ads,	•	-	-	-		1,801		92,430	99
Total,	-	-	•	-	-	-	<b>-</b> ,	, <b>-</b>	\$803,235	QO
	ርረርዴጥ	OF 1	RO A TI	ANT	EQU	IPM	ENT.			
Total Cost for Constr								s Buil	t by Compa	ny.
Total expended for								•	\$681,427	60
Average cost per 35.50 miles, Proportion of cost	-	_	_`	ot 120 - -	- - -	g 81 - -	aings), - -	, <del>-</del> -	16,743 681,427	

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

No debits or credits to property accounts during the year.

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## ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Main line and branc	hes:									
Local fares,	_	_	_	_	_	_	_		\$45,355	81
Through fares,	-	-	-	-	-	-	•	-	1,054	
Total passenger	fares,	-	-	-	-	-	-	-	<b>\$46,4</b> 10	33
Express and bagg	age,	-	-	-	-	-	-	-	961	-
Mails,	-	-	-	-	-	-	•	-	2,987	76
Total passenger	earni	ngs,	•	-	-	-	-	-	<b>\$</b> 50,360	07
Proportion for Mi Per train mile,	_	n,	-	-	-	<b>\$</b> 50	,360	07 73.52		
Per mile of road,	-	-	-	-	-	1,	,116			
		FR	EIGHT	BAR	NINGS	l <b>.</b>				
Main line and branc	haa .							•		
Local traffic,	що.					<b>2</b> 48	,073	44		
Through traffic,	-	-	-	-	-		,385			
Total traffic,	-	-	-	-	-	<b>\$</b> 48	,459	07		
Other sources freig	ght de	ep <b>ar</b> t	ment,	-	-		60	00		
Total freight ea	rning	8,	-	-	-	-	-		<b>\$48,519</b>	07
Proportion for Mi	chigar	1,	_	_	-	<b>48</b> ,	,519			
Per train mile,	-	-	-	-	-			03.17		
Per mile of road,	-	· <b>-</b>	-	-	-	1	,075	81		
Total transports Transportation earn	tion e	arni	ngs,	- -		-	-	-	\$98,879	14
45.10 miles, _	-	_	_	-	-	82	,192	44		
Transportation earn 115,622 miles,	nngs	per	train	mile	,—			85.52		
Miscellaneous receip other than for tra								00.02		
From telegraph,	пврог	PSPLIOT	1, 285 10	)IIO W	5.		00	41		
From other sources,	-	-	-	•	-		812			
rrom other sources,		-	-	-	•	<del></del>	012		905	11
Total earnings f	rom o	perat	ion of	f road	i,	-	-	-	\$99,784	25
Total earnings per m	nile of	road	l (45.1	0 mil	08),	<b>\$2</b> ,	,212			
Total earnings per t Proportion of taxab	rain n le eari	nings	for 1	s≈ mı ¶ichiş	gan,	99,	,78 <del>4</del>	86.30 25		

1887.] SAGINAW VALLEY & ST. LOUIS RAILROAD CO.									CO.		27
Total taxable Michigan,	earnii				oad -	in -	•	2,212	51		
Total inc	ome fr	om all	sourc	<b>08</b> ,	-	-	-	-	-	\$99,784	25
Proportion of	incon	ne for I	Michig	gan,	-	-	-	-	-	99,784	25
		A	NALY	sis o	F E	KPEN	SES.			•	
	CI	ASS 1.—	Mainte	enance	of B	V <b>ay</b> a	nd B	uilding	18.		
Repairs of ros	adway	and tra	ck,	_	-		-	-	_	\$10,713	74
Renewals of	rails,–	-Credi	t,	-	<u>.</u> .	-		<b>\$</b> 931	25		
Renewals of	ties.	-	_	-	-	-	-	-	-	3,152	
Repairs of br	idges,	includ	ing co	ılverta	s and	cattl	e gu	ards,	-	256	
Repairs of fer	nces, r	oad cre	ossing	s, and	sign	8,	_	-	-	<b>44</b> 4	
Repairs of bu	ilding	3,	-	-	-	-	-	-	•	101	41
Total,	-	-	-	-	-	-	-	-	-	<b>\$</b> 13,738	31
	CLASS	s 2.— <i>M</i>	ainten	ance o	f Mo	tive P	ower	and C	ars.		
										42.004	
Repairs of lo			-	-	-	-	-	-	-	\$2,881	
Repairs of pa						-	-	-	-	5,481	60
Repairs of fro	eight o	cars,	-	-	-	-	-	-	-	5,031	59
Total,	-	-	-	_	_	-	-	-	-	\$13,394	55
		CLASS	8.—C	onduc	ting!	Trans <u>ı</u>	oorta	tion.			
Fuel for loco	motive	8	_	_	_	_	_	_	_	<b>\$6,961</b>	19
Water supply			_	_	_	-	-	-	_	316	
			-	-	-	-	_	-	_	911	
Locomotive s	ervice,		_	-	-	-	_	-		7,030	67
Oil and waste Locomotive s Passenger tra	in ser	vice,	-	_	_	-	-	-	-	1,946	
Passenger tra	in sup	plies,	-	-	_	-	-	-	-	344	
Mileage of pa	ssenge	er cars,		-	-	-	-	-	-	2,892	
Freight train	servi	ce,	-	_	-	-	-	-	-	<b>3,2</b> 69	
Freight train	suppl	ies,	-	-	-	-	-	-	•		30
Mileage of fr			-	-	-	-	-	-	-	786	
Telegraph ex	penses	(main	tenan	ce and	lope	rating	ζ),	-	-		44
Damage and	loss of	freigh	it and	bagg	age,	-	-	-	-		21
Damage to pr		y and c	attle,	-	-	-	-		-		90
Personal inju		٠.	-	-	-	-	-	-	-		24
Agents and s		Bervice	, -	-	-	-	-	-	-	7,418	
Station suppl	108,	-	-	-	-	-	-	•	-	219	<del>1</del> 0
Total,	-	-	-	-	-	-	•	-	•	\$32,741	38

## CLASS 4. - General Expenses.

Salaries of the	e gene	ral o	fficers	of th	e Con	pany,		_	-	\$3,278 1	6
Salaries of cle	erks ir	gen	eral o	ffices,	_		-	-	_	1,424 0	1
Law expenses		٠.	_	_ `	_	_	_	_	_	309 5	4
Insurance,		_	_	_	_	_	-	-	_	352, 8	0
Stationery an	d prin	ting.	_	_	_	_	_	_	_	766 4	
Outside agend				ng.	_	_	_	_	_	60 3	6
Contingencies	. inclu	ding	rent	of trac	cks. st	ations	. 87.0	000.	_	8,445 3	7
Taxes, .	-	-	•	-	-	-	-	-	-	2,055 2	-
Total.										<b>\$</b> 16,691 9	_

## RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and cars,	-	-	17	.94 .50	\$13,738 13,394	<b>55</b>
Conducting transportation, General expenses, including taxes, -	-	- 		.76 .80 	32,741 16,691	
Total operating expenses and taxes,	-	-	100	.00	<b>\$</b> 76,566	17
Operating expenses and taxes per mile 45.10 miles, Operating expenses and taxes per train mitrains earning revenue,—115,622 mile Proportion of operating expenses and	- ile run 8, -	, for	<b>\$</b> 1,697	70 66.22	;	
Michigan,	-	-	-		76,566	17
Total proportion of expenses for M	ichiga	n, _	-	-	<b>\$76,</b> 566	17.
Percentage of expenses to earnings, Net earnings per mile of road,—45.10 m Net earnings per train mile,		6.73 - -	514	81 20.08	·	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Saginaw to St. Louis, January, 1873. From Alma to Ithaca, March, 1883.

#### MAIN LINE.

In Michigan:						Miles.	100ths.	Miles. 100ths.
From Paines to St. Louis,	-	•	-	-	-	28	8 60	
Total length completed,	_	_	-	-	-	_	_	28 60

## BRANCHES.

				-	Miles.	00ths.
Ithaca, from Alma to Ithaca,	-	-	6	90		
Total length of branches owned by Compa	ny,	-	-	-	6	90
Total length of branches owned by Company is	in Mic	ch- -	$\epsilon$	90		
Total length of road belonging to this Cor	npany	, -	-	-	35	50
Total length of road belonging to this Con Michigan, Aggregate length in Michigan of sidings, sp other tracks not above enumerated,	urs, a	nd -	38	50	3	20
Aggregate length of tracks in Michigan belo this Company, computed as single track, Gauge of track, 4 feet 8½ inches.	nging -	-	38	70		
. Proprietary or Leased Roads Opera	ted by (	Comp	any.			
Name, description, and length of each:			otal M	iles T	n Miak	doon
Tookson Lensing & Section R R				00		00
Jackson, Lansing & Saginaw R. R., Saginaw & Grand Rapids R. R.,	-	-		60	-	60
Total,	-	-	9	60	9	60
Total miles operated by the Company,	•	-	45	10	45	10
Number of Bridges and Trestles	in Mic	higan	•			
Wooden bridges, number of, 6; aggregate leng	th, fee	et,	-			606
Total, 6;	-	-	-			606
Draw Bridges in Michi	igan.		,			
How many on your line?	-	-	-		N	one.
Crossings—Railroad and E	Iighwa:	y.				
What railroads cross your road at grade in this T. A. A. & N. M. R. R., at St. Louis.						
What railroads cross your road either over or u and where? None.	inder j	our	grade	in t	his S	tate,
At what crossings are interlocking and derailing None.	ıg swit	ches	in op	erati	on?	
Number of crossings of highways at grade in t Number of crossings of highways at grade in			- 9, at			59
which there are gates or flagmen,	-	-	-		N	one.

<b>10</b>	ICHIGAN R	AILKU	AD K	ETUB	INB.		fnec. ar.
Number of crossings as signals,		_	_	_	_	_	None.
Number of crossings of —; under,—), Number of highway bri Number of highway bri Have safety guards bee	idges, 18 fee idges less the n erected a	t abov an 18 : t over	e trac feet a	k, bove	track,	- - -	None. None. None.
No overhead obstruct Are your frogs and guar Session Laws 1883? How are they treated? Hart guard is used.	d rails block		-	red by -	Act 1	.74 <b>,</b> -	Yes.
	S	Station	8.				
Number of stations on Same in Michigan,			-	-	-		17 17
	E	mploye	§8.				
Number of persons regu	ularly emplo	ved o	n all 1	roads	opera	ted	•
by Company, including	ng officials,	-	-	-	-	•	73
Same in Michigan, Classify your employés	es nor follow	Fina li	et ·	-	-	•	<b>73</b>
Classify your employes	as per tonov	Aing i					Number.
Baggagemen (train),		-	-	-	-	-	1
Brakemen,		-	-	•	-	<u>-</u>	7 3
Conductors, Engineers,		-	-	•	•	-	3
Firemen,			•	-	-	-	3
Lacorers, Shopmen		-	-	-	-	-	16
Yardmen,		-		-	-	-	
Others,		-	-	-	-	-	40
Total,		•	-	-	-	-	73
	REPAIRS A	AND B	ENEW	ALS.			
	Fencing	in Mi	chigan	•			
How many miles of fend Give the number of m sides of your track, in needed. All fenced.	iles required	d to c	eomple 10 cou	ete fe nties	- nce b in wh	oth ich	78.14
	Road Be	ed and	Track	<b>;.</b>			
Nomber of track section Average length of section		an,	-	•	-	-	7 5.63
Average number of mer	in each sec	tion g	ang,	-	-	-	3

Number of new ties put in whole line during the year,		10,509
Number of new ties put in track in Michigan,	-	10,509
Average number of new ties per mile of road (45.10 miles),	-	233
New rails put in track:		
None, except for ordinary repairs.		

## Bridges and Culverts.

Amount of trestle work replaced with earth d	uring	the y	rear	
(linear feet),		-	-	None.
Timber culverts replaced during the year,	-	-		3
With iron pipe,—number,	-	-	-	1
With sewer pipe,—number,	-	-	-	2
With timber,—number,	-	-	-	None.
New bridges built during the year,—number,	-	-	-	None.

## ROLLING STOCK.

		Number	Present Estimated Value.
Number of locomotives of 20 to 30 tons exclusive of tender,	weigh		3 \$15,000 00
Total,	-	_	\$15,000 00
Number of passenger cars—8-wheel, inclu	ding of	fi-	
cial cars,			<b>5.000 00</b>
Number of express and baggage cars,	_		1 2,000 00
Number of box freight cars,	_	. 1	0 3;000 00
Number of platform cars,	_	_ 4	0 10,000 00
Number of conductors' way cars,	-	-	250 00
Total,	-	- 5	\$20,250 00
Number of locomotives equipped with	h pow		<b>2</b>
Number of passenger-train cars equip	iw bec	_	•
power brakes,	· -	_	3
Number of freight cars equipped with	h pow		
brakes,	 	_ None	•
and number of locomotives and cars wi			
Westinghouse air brake,	IUII GACI		5
Are your freight cars being equipped with Act No. 147, Sessson Laws of 1885?	autom	-	•
What pattern or patterns have you adopt Testing the "Cowell" and "Blocker"			

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## MILEAGE, TRAFFIC, ETC.

## Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	68,495 47,127
Total mileage of trains earning revenue,	_	-	_	115,622

## Passenger Traffic.

		Numbers and Quantities.	Mil	<b>cs</b> .		Rate,
Number of through passengers carried,	-	892				
Number of local passengers carried,		95,006				
Total number of passengers carried,	-	95,898				
Total passenger mileage, or passengers carrie	ed	one mile,	1,694	057		
Average distance traveled by each passenger			1'	7.67		
Average amount received from each passeng			-	-	<b>\$</b> 0	<b>48.40</b>
Average rate of fare per mile for through pa			-	-		2.63
Average rate of fare per mile for local passer	ng	ers, _	-	-		2.74
Average rate of fare per mile for all passeng	er	8,	-	-		2.74

## Freight Traffic.

<b>,</b>	•				
	60,24	7			
	-	-	61,0	000	
-	-	-	1,200.0	90	
ne mi	le,		1,261,0	90	
local	freigh	ıť,	<b>2</b> 0.		80.43 3.911 3.839 3.843
	ne mi	60,24  60,24  ne mile,  hrough freelocal freigh	58,891 60,247	58.891  60,247  1,200.0  ne mile, 1,261,0  20.  1,261,0  1,261,0  1,261,0  1,261,0	58.891  60,247  1,200,090  1,261,090  1,261,090  2, 20,38  20,93  hrough freight,

# Freight Forwarded at Michigan Stations.

									a can
All Michigan stations.	_	_	_	_	_	_	_	_	60.247

Forwarded,

# Tonnage of Articles Transported-Entire Road.

										Tons.	Per Cent.
Grain,	_	_	-	_	_	_	-	_	-	8,665	14.38
Flour,	_	_	-	_	_	-	_	_	_	978	1.62
Provisions	(beef,	pork	, lar	d, etc	),	-	-	-	-	579	.96
Animals,	•	_	-	_	-	_	_	-	-	359	.60
Other agr	cultur	al pro	duci	ts,	_	_	_	_	_	1,753	2.91
Lumber as	nd fore	st pr	oduc	ets,	-	_	-	-	_	30,734	51.02
Coal,	-		_	_	_	_	-	_	_	777	1.29
Plaster, lin	ne and	l cem	ent,	_	_	_	_	_	-	933	1.55
Salt,		_	_ `	_	-	-	-	_	-	5,135	8.52
Other iron	and o	astin	<b>78</b> ,	_	-	_	-	_	_	554	.92
Stone, brie	k and	sand	,	_	-	_	_	-	_	691	1.15
Manufactu	ıres,—	articl	es sh	ipped	fro	m poir	t of p	roduc	tion,	483	.80
Merchandi	se and	doth	er ar	ticles	not	enum	erate	d abo	ve,	8,606	14.23
Total	tons c	arried	ا,		-	_	_	-		60,247	100.00

### ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company. They handle their own freight.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? The Western Union Telegraph Company; 45.10 miles.

#### TRANSPORTATION.

#### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

No sleeping, drawing room or palace cars run on this line.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car

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rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Included in the report of the Detroit, Lansing & Northern Railroad Co.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### INJURED.

January 8. D. E. Collins, freight brakeman, Paines; loading freight; purely accidental.

June 9. Chas. Weidman, engineer, 21 miles east of Merrill; train derailed; cause unknown.

June 9. M. D. Corbus, fireman,  $2\frac{1}{2}$  miles east of Merrill; train derailed; cause unknown.

June 9. A. W. Sanford, baggageman, 2½ miles east of Merrill; train derailed; cause unknown.

September 12. T. W. O'Heran, freight conductor, Ithaca; coupling; purely accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Comment Applicate		Killed.		Injured.				
Causes of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions								
Coupling cars					1			
Derailments					8			
Falling from trains	1			1	Į.	ļ		
Frogs								
Getting on and off trains								
Highway crossings								
Miscellaneous					1			
Overhead obstructions								
Trespassers on trains								
Trespassers on tracks			.:					
	_							
Total	·				5			

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.		_	-	
Number of persons injured during the year,			-	5
		-	-	5
Number resulting from lack of caution,	carelessness	or	mis-	
conduct.		_	_	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen		1	1
Brakemen		1	1
Conductors		1	1
Engineers		1	1
Firemen	•••••	1	1
Laborers			
Shopmen		 	
Yardmen			
Not classified above			ļ
Total		5	5

STATE OF MICHIGAN, SS. COUNTY OF WAYNE.

Jno. B. Mulliken, President, and James E. Howard, Treasurer of the Saginaw Valley & St. Louis Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

JOHN B. MULLIKEN. JAMES E. HOWARD.

Subscribed and sworn to before me this 15th day of February, A. D. 1888.

[L. S.]

HENRY H. JAMES,

Notary Public, Wayne Co., Mich.

#### ANNUAL REPORT

#### OF THE

# SAGINAW & GRAND RAPIDS RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed February 15, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Sec., Treas., and Transfer Agent, JAMES E. HOWARD, Detroit, Mich.

# DIRECTORS.

H. H. HUNNEWELL, Boston, Mass.
CHAS, MERRIAM, Boston, Mass.
NATHANIEL THAYER, Boston, Mass.
\* ALPHEUS HARDY, Boston, Mass.
GKO. O. SHATTUCK, Boston, Mass.
CHAS. L. YOUNG, Boston, Mass.
JAS. H. BLAKE, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
WM. G. MEANS, Boston, Mass.
WALTER HUNNEWELL, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
C. S. SERGEANT, Boston, Mass.
F. H. DAMON, Boston, Mass.
Terms all expire July 11, 1888.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.



<sup>\*</sup> Deceased.

Amount of full paid stock held in Michigan at same date, . . . . None-Date of annual meeting of stockholders,—The second Wednesday in July. Fiscal year of Company ends December 81st, General offices of the Company are located at Detroit, Michigan.

#### REMARKS.

This road is leased to the Saginaw Valley & St. Louis Railroad Company in perpetuity, that road paying a dividend of ten per cent per annum on the stock of this Company as rental.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	-	\$70,000 00
Par value of shares, \$100.00		•
Average price received per share, 100.00		
No. of shares issued, 700		
Amount paid in on common, \$70,000	00	
Total amount paid in, as per books of the Company,	-	70,000 00
Paid in per mile of road owned by Company, 3.60 miles,	-	19,444 44

#### ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

This road has no funded debt.

### UNFUNDED DEBT.

This road has no unfunded debt.

# RECAPITULATION.

Total amount of stock,	-	-	-	-	-	_	-	\$70,000 00
Stock and debt per mile of	road	,	-	-	-	•	-	19,444 44

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,	<b>\$</b> 70,000 <b>0</b> 0
Average cost of construction per mile of road (not including	
sidings),—3.60 miles,	19,444 4 <b>4</b>
Proportion of cost of construction for Michigan,	70,000 00

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: May, 1879.

#### MAIN LINE.

						Miles. 1	00ths. 1	files, 100ths.
Length completed in Michigan,	-	-	-	-	-	3	60	
Total length completed,	-	-	-	-	-	-	-	3 60
Total length of road belonging Total length of road belongin	to thi	s Con this	ipany Com	, pany	- in	-	-	3 60
Michigan,	-	-	-	_	-	3	60	
computed as single track, Same in Michigan. Gauge of track 4 feet 8½ inches.	-	-	-	-	-	- 3	60	3 60

STATE OF MASSACHUSETTS, SS. COUNTY OF SUFFOLK,

Charles Merriam, Director, and James E. Howard, Secretary, of the Saginaw & Grand Rapids Railroad Company being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, CHAS. MERRIAM, Director.

JAMES E. HOWARD, Secretary.

Subscribed and sworn to before me this 7th day of February, A. D. 1888, by Chas. Merriam.

[L. S.] F. H. DAMON, Notary Public.

Subscribed and sworn to before me this 2d day of February, 1888, by J. E. Howard.

[L. S.] HENRY H. JAMES,
Notary Public, Wayne Co, Mich.

#### ANNUAL REPORT

#### OF THE

# PORT HURON & NORTHWESTERN RAILWAY COMPANY.

For the Year ending December 31, 1887.

[Filed March 15, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JNO. P. SANBORN, Port Huron, Mich.

Vice President, C. F. HARRINGTON, Port Huron, Mich.

Secretary and Treasurer, F. L. WELLS, Port Huron, Mich.

General Manager. HENRY McMORRAN, Port Huron, Mich.

General Superintendent, ISAAC R. WADSWORTH, Port Huron, Mich.

Chief Engineer, ARTHUR L. REED, Port Huron, Mich.

Cashier, E. C. CHAMBERLIN, Port Huron, Mich.

General Passenger Agent, I. R. WADSWORTH, Port Huron, Mich.

General Freight Agent, I. R. WADSWORTH, Port Huron, Mich.

Asst. Gen'l F. & P. Agent, GEORGE BENT, Port Huron. Mich.

Attorney, O'B. J. ATKINSON, Port Huron, Mich.

# DIRECTORS.

- F. E. BEARD, Port Huron, Mich.
- S. L. BALLENTINE, Port Huron, Mich.
- C. F. HARRINGTON, Port Huron, Mich.
- E. B. HARRINGTON, Port Huron, Mich.
- H. McMorran, Port Huron, Mich.
- J. P. SANBORN, Port Huron, Mich.
- P. B. SANBORN, Port Huron, Mich.
- F. L. WELLS, Port Huron, Mich.

Term expires first Wednesday in March.

# STOCKHOLDERS, STOCK AND GENRRAL OFFICES.

When chartered or articles of association filed,—March 28, 1878.	
Number of stockholders at date of last election,	10
Number of stockholders in Michigan at same date,	10
Amount of full paid stock held in Michigan at same date,	All.
Date of annual meeting of stockholders, First Wednesday in March.	
Fiscal year of Company ends,—December 31.	
General offices of the Company are located at Port Huron, Mich.	

# GENERAL EXHIBIT.

•				Dm	SIT.	Crn	DIT.
Total income, Total expenses, including taxes,	-	 -	<u>-</u>	\$213,753	57	<b>\$328,061</b>	09
Net income,	-	· -	-		-	\$114,307	<b>52</b>
Interest on funded debt, Interest on unfunded debt,	-	-	-	130 <b>,472</b> 20,532			
Balance for the year,	-	-	-	\$36,697	17		
Balance (profit and loss) last yes Balance forward to next year,	ar, -	- -	<u>-</u>	133,143	9 <b>9</b> -	169,841	16
				\$169,841	16	\$169,841	16
ANALYSI	<b>s</b> c	F CAP	TAL	STOCK.			
Amount anthorized by charter of Par value of shares, No. of shares issued,	-	rticles ( \$100 10,900	00	sociation,	•	<b>\$1,090,000</b>	00
Amount paid in on common,	-	-	-	<b>\$1,090,000</b>	00	•	
. Total amount paid in, as pe	r b	ooks of	the	company,	_	1,090,000	00
Paid in per mile of road own pany,—Miles, 218, _	ed -	by Co	)m- -	\$5,000	00		

# 1887.] PORT HURON & NORTHWESTERN RAILWAY CO.

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds, October 1, 1879	-			\$755,000 00 920,000 00 185,000 00
Total funded debt	ł			\$1,810,000 00

# UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction	Part to be funded	\$882,750 50
For equipment		
		E .
For renewale.		
For miscellaneous		
For current balances		
Total unfunded debt		\$934,790 64

# RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	•	-	-	· -	-	-	934,790	
Total debt liabilities,	-	-	-	•	-	-	-	\$2,744,790	64
Amount of debt liabilities	per ı	nile e	of ros	ıd,—2	18 mi	les,	-	12,590	78
Total amount of stock and Stock and debt per mile of			-	-	-	· -	-	\$3,834,790 17,609	

# GENERAL BALANCE SHEET,-Dr.

Construction account, Equipment account,	:		-	-	\$3,271,438 307,614	77	<b>A</b> 0 F04 198	KO
Other investments (specify Elevators,	ying -	same) -	:	-			<b>\$</b> 3,58 <b>4</b> ,136 <b>5</b> ,086	

							J 2 O 10.			[200,	•••
Cash items:										•	
Cash, _	_	_	-	_	_	_	\$1	4,561	92		
Bills receival	ole.	_	_	-	_	_		25,551			
Due from age			_	_		_		6,679			
2 40 4.024	,,	-	•	-	-	-				46,793	23
Other assets: Materials and Debit balance	l supp s fron	olies, a com	- pani	- es and	indi	vidual	<b>\$</b> {	25, 70 8,8 <b>4</b> 9	37 38		
			_							<b>34,</b> 019	
Profit and loss,	-	-	-	-	-	-	-	-	-	169,841	16
Total,	-	-		-	-	1-	-	-	_	<b>\$3,834,790</b>	64
		GEN	ERA	L BAI	LANC	e she	ET,—	Cr.			
Capital stock,	-	-	-	-	-	-	-	-	-	<b>\$1,090,000</b>	
Funded debt,	-	-	-	-	-	-	-	-	-	1,810,000	00
Total,	-	-	-	-	-	-	-	-	-	\$2,900,000	00
Unfunded debt	:										
Coupons out,		-		-	_			<b>\$</b> 105	00		
Accrued inte	rest. n	ot dr	16.	•	_	_	_ 3	5,550			
Funded coup	ons.	_	,					7,064			
z anaca coup	020,	•	-	•	-	-				<b>\$233,719</b>	00
Other liabilities	s,—lis	t as f	ollov	78:						• <b>,</b>	
Stockholders		_	_	_		_	<b>\$</b> 39	6,357	35		
Construction		_	_	_	_	_		5,355			
•	•									401,712	47
Notes payabl	<b>e.</b>	-	_	_	_	_	_	_	_	248,319	
Vouchers and	acco		_	_	-	-	_	-	-	52,040	
, , , , , , , , , , , , , , , , , , , ,		,	-	-	-	•	-	-	-	·	
										<b>\$</b> 93 <b>4</b> ,790	64
Total,	•	-	-	-	-	-	-	-	-	<b>\$</b> 3, <b>834</b> ,790	<b>64</b>
Total,	-	- Cost	- OF	- ROAI	- ANI	- D EQU	- IP <b>M</b> E	NT.	-	<b>4</b> 0,00 <b>4</b> ,780	U
Total Cost for Co	m <b>stru</b> c	tion a	nd E	quipm	ent of	Road	and B	ranche	s Bı	uilt by Compa	ny.
Matal armandad	for o	~~a+~-	aatia	n am3	oani	nmor+				ቀያ አማር በደብ	19
Total expended	TOLG	TIREL	ucuo	т <b>я</b> па	equi	ոց: հագու	را :الرزم		110	<b>\$3,579,05</b> 0	TØ
Average cost pe	er mii	6 01	1080	(noi	inci	uaing	BIQIE	ige,—	118	10 112	0.0
miles,	-, -	- ,	,	-	-	-	•	-	-	16,417	
Proportion of	ost fo	r Mic	chiga	n,	•	-	-	•	-	3,579,050	12:

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

_										
Depot grounds,	-	-	-	-	-	-	-	-	<b>\$</b> 3,850	
New buildings,		-	-	-	_	-	-	-	354	
New fences,		_	-	-	-	_	-	_	629	28
Machinery and	tools,	-	-	-	-	-	•	-	102	<b>64</b>
Total char	ges to prop	perty	accou	nt as	above	9, _	-	-	\$4,936	87
Net addition to	property	accou	ınt,	-	-	-	-	-	4,936	87
		ANA]	Lysis	OF E	ARNI	NGS.				
		PAS	BENG:	ER EA	RNIN	GB.			•	
35 . 1. 11	•	14.	JULIA (1	DI, DA	11641 2 21	u.,				
Main line and b									4100 N10	~~
Local fares,		-	-	-	-	-	-	-	\$132,713	
Through fare	<b>38</b> , _	-	-	-	•	-	-		36,465	22
Total passe	nger fares	, -	-	-	-	-	-	-	<b>\$</b> 169,179	<b>04</b>
Express and	haggage								12,346	21
Mails,		-	-	-	-	-	-	-	11.838	
Total passe	nger earni	ngs,	-	-	-	-	-	-	<b>\$</b> 193,363	85
Proportion fo	r Michiga	n.				<b>\$</b> 19:	3,363	85		
Per train mil		_,	•	<u>.</u>	-	<b>V</b> 200	,,,,,,	79.09		
Per mile of roa	d, .	-	-	-	_		886	• • • •		
		171	REIGH	T RAI	RNING	R.				
Main line and b	ranches.				211210	-				
Local traffic,						\$109	2,708	49		
Through trai		-	-	-	-	910	5,278	60		
Infough trai	шо, -	-	-	-	-					
Total traffi		-	-	-	-	\$12	7,987	08		
Total freig	ht earning	gs,	-	-	-	-	-	-	\$127,987	08
Proportion for	Michigan.				_	<b>\$</b> 12'	7,987	08		
Per train mile.		• .	•	-	-	<b>V</b>	.,	85.06		
Per train mile, Per mile of ros	и.	•	-	•	-		585			
1 61 mile 01 10a	-u, -	•	-	-	-		000			
Total trans	sportation	earn	ings,	-	-	-	•	-	<b>\$</b> 321,350	93
Transportation Transportation Miscellaneous r other than fo	earnings j eceipts fro	per ti m op	ain m eratin	ile, g acco	- ount,	:	1 <b>,474</b> 0	08 9.82		

44	MICHIGAN RAILROAD RETURNS.										
From telegi	aph.		_	_	_	1,608	16				
From rental	s of tracks	or teri	ninal	B,	-	5,102					
Total,			-	_	-	<del></del>	_	6,710	16		
(T) - 4 - 1	. <b></b>						-	<b>A</b> 200 001			
Total ear	nings from o	perat.	1011 01	roac	l, _		-	\$328,061	UĐ		
Total earnings			,	-	-	\$1,504					
Total earnings Proportion of			or M	- ichig	an.	328,061	83.08 09				
Total taxable						•,	-				
Michigan,		-	•	-	•	1,504	86				
Total inco	me from al	sour	008,	-	-		-	\$328,061	09		
Proportion of	income for	Michi	gan,	-	-	328,061	09				
_			_								
		ANAL	ysis (	OF E	XPENS	ES.					
	CLASS 1	-Main	tenano	e of	Way an	d Building	8.				
Repairs of roa	dway and to	rack.	_	_			_	\$56,121	03		
Renewals of re	ails, _	•	-	-	-		- }	10,967			
Renewals of ti Repairs of brid	OB, _	-	-	and	- cettle	enarda	٠,	3,066			
Repairs of fen	ces, road cr	nasino	a. and	aion	A.	guarus,	-	1,406			
Repairs of buil		-	-	-	-		-	1,268			
Total,							-	\$73,829	90		
Total,	• •	-	-	-	-		-	<b>♥</b> ≀≈,0≈3	00		
	CLASS 2.—	<b>K</b> ainte	nance	of M	otive Pa	nver and C	ars.				
Repairs of loce	omotives.			_	_		_	<b>2</b> 10,592	64		
Repairs of pass		_	-	-	_		-	4,327			
Repairs of frei	ght cars,	-	-	-	•		-	5,806			
Total,							-	\$20,726	84		
20001,	• •	•	٠,	•	•		-	4.00,1.00	0_		
	CLAS	s 8.— <i>C</i>	conduc	ting	Transp	ortation.					
Fuel for locon	otives,		<b>-</b> .		-			\$25,412	62		
Water supply,			-	-	-		-	2,300	16		
Oil and waste,		-	-		-			1,364	83		
Locomotive se		-	-	-	-		-	<b>22,0</b> 08			
Train service,		-		-	-		-	17,597			
Passenger trai	n supplies,	-		_	-		-	2,164			
Freight train	supplies,	-	-	-	-		-	444			
Mileage of frei	ght cars,	-	-	_	-		_	10 <b>4</b>	98		
Telegraph exp		tenan	ce and	ago f	rating)	, -	-	2,130			
Damage and lo	oss of freigh	t and	bagga	χe.	-		-	184			
Damage to pro					-		_	283			
			-	-	-		_				

1887.] PO	RT HURO	N & :	NOR'I	THWE	esteri	N RA	ILWAY CO	· ·	45
Personal injurie	B	_						429	45
Agents and static	on service	a	į	-	-	•		19,675	
Station supplies,	J_ JUI 1100	••	•		-	•		1,004	
busion supplies,	-	-	•	-	•	-	-	1,001	
Total,		-	-	-	-	:		\$95,104	79
		CLASS	4	Genera	ıl Expe	n <b>s</b> es.			
Salaries of the g	eneral offi	cers c	of the	Com	nanv.			<b>\$</b> 6,000	00
Salaries of clerks					rJ,	_	-	2,615	
Law expenses, .		<b></b> 0	.000,	-	•	•		1,546	
Insurance,	-	-	-	-	-	-		1,171	
	- 	-	-			•			
Stationery and p	tinning,	_ L::		-	-	-		1,230	
Outside agencies	ana aave	rtisin	g,	-	-	-		3,899	
Contingencies,	-	-	-	-	-	•		2,068	
Taxes, .		-	-	-	-	-		6,561	22
Total,		-	•	-	-	-	• •	\$25,092	06
Maintenance of real Maintenance of real Conducting transferences.  Total operations of the Conducting expenses of the Conducting expenses of trains earn Proportion of the Michigan,—Maintenance of the Michigan,—Maintenance of the Maintenance of the Conduction of th	notive por sportation , includir ing expen ses and ta ses and ta ing reven-	wer and tax ses and tax ses and tax ses parts of tax ses	nd ca res, and ta er mi per tr	xes, ile of rain r 69 mi	nile ru les), taxes :	for	84.25 9.73 44.21 11.81 100.00 \$980 52 54.0	\$72,829 20,726 95,104 25,092 \$213,753	84 79 06
mionigan, m	and mo,	•	•	•	-	- ~	10,100 01		
Total proportion of experience	penses to mile of r	earnii oad,		• Micl - - -	nigan, - - -	· ·	65,153 \$524 34 29.0	\$213,753 2	57
		DESC	RIPT	ION (	OF RO.	AD.		• ,	
Date when the ro December 11,		pened	for t	ase be	tween	its ]	present tern	nini:	
							Miles,	100ths, Miles, 10	Oths.
In Michigan: From Port Hu	ron to Es	st Sa	ginav	₩,	-	-	_ 91	. 00	
Total length	complete	d,	-	-	-	-		91	00

#### BRANCHES.

Sand Beach, from Saginaw	June	ction to	Sand	Bea	ch,	58	25		
Port Austin, from Palms to				-	-	35	00		
Almont, from Port Huron			-	_	-	33	75		
·		-							
Total length of branches	owne	d by Co	mpany	7,	-	-	•	127	00
Total length of branches ow	ned b	y Compa	my in	Mic	hi-	108	00		
gan,			-	-	-	127	00	910	ΛΛ
Total length of road belonging					:-	-	-	218	vv
Total length of road belong Michigan,	Ring (	O LILIS	Сошр	апу	ш	218	ΔΩ	•	
Aggregate length in Michig	ran of	eidings	- gnn	- Pa a	nd	210	00		
other tracks not above enu			, spu	15, a	щи			12	80
Aggregate length of tracks in			nøine	to t	- hig	•	-	-~	00
Company, computed as sing			-8	, -	_	_	_	230	80
Gauge of track, 3 feet.	<b>B</b>	<b>-,</b>	_	_	-		_		••
•								In Mich	igan,
Total miles operated by t	the Co	mpany,	-	-	-	218	00	218	00
Number of 1	Bridge	and Tre	stles in	Mic	higan.				
•				_		_		5.	1 <b>43</b>
Number of A Wooden bridges, number of, Iron bridges, number of,	41;	and Tre aggrege aggrege	te len	gth,	feet,			•	1 <b>43</b> 380
Wooden bridges, number of,	41;	aggrege	te len	gth,	feet,				
Wooden bridges, number of, Iron bridges, number of, Total,	41; 1; 42;	aggregs aggregs	ate len	gth, gth,	feet,				38 <b>0</b>
Wooden bridges, number of, Iron bridges, number of, Total,	41; 1; 42;	aggrege	ate len	gth, gth,	feet,				38 <b>0</b>
Wooden bridges, number of, Iron bridges, number of,  Total,  Dro  How many on your line? Where located, when built, a AtPort Huron, May and J	41; 1; 42; w <i>Bri</i>	aggregs aggregs - dges in l	ate len	gth, gth, - an pan	feet, feet,				38 <b>0</b>
Wooden bridges, number of, Iron bridges, number of,  Total,  Dro  How many on your line? Where located, when built, a AtPort Huron, May and J Character of structure:	41; 1; 42; aw Bri	aggregate aggreg	ate len  -  Michiga  draw a  0 feet.	gth, gth, - an pan	feet, feet,				380 —- 523-
Wooden bridges, number of, Iron bridges, number of,  Total,  Dro  How many on your line? Where located, when built, a AtPort Huron, May and J	41; 1; 42; aw Bri and len June, I	aggregate aggreg	ate len  -  Michiga  draw a  0 feet.	gth, gth, - an pan	feet, feet,				380 —- 523-
Wooden bridges, number of, Iron bridges, number of,  Total,  Dro  How many on your line? Where located, when built, a AtPort Huron, May and J Character of structure: Pratt truss draw on center-Material of which constructe	41; 1; 42; aw Bri and lea une, 1	aggregate aggregate dges in 1 angth of 6 1881, 144 ang table.	ate len te len  Wichige draw a	gth, gth, - an. pan	feet, feet,				380 —- 523-
Wooden bridges, number of, Iron bridges, number of,  Total,  Dro  How many on your line? Where located, when built, a AtPort Huron, May and J Character of structure: Pratt truss draw on center-	41; 1; 42; aw Bri and les fune, 1 bearind: nels, a	aggregate aggregate dges in 1 angth of 6 1881, 14 ang table.	te len  -  Michiga - lraw s 0 feet.	gth, gth, an. span	feet, feet,				380 —- 523-

How swing, by engine or hand power?

Hand power.

Approaches, straight or curved?

Straight.

Do you require all trains to come to a full stop before crossing draw, and how are they signaled?

Yes. By large colored lantern on top of swing and colored signal by bridgeman.

#### Crosssings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Grand Trunk R. R., at Port Huron.

Crond Trans	TD 1	٠. د	α	4 m	-l- T					
Grand Tru					nk J	uncui	оц.			
P. O. & Pt.	. A. K.	п., а	t OIII	rora.						
Michigan (	Sentrai	K. K	., at	V 8888	r.					
Michigan (										
What railroad		your	road	eithe	OAGI	or ur	ider y	our g	rade in	this State,
and where	?									
·Over grade:										
None.										
Under grade	:									
None.										
At what cross	sings ar	e inte	rlock	ing ar	nd de	railing	g swite	ches	in opera	tion?
None.	Ū			J		•	•		•	
Number of c	rossing	s of b	ighw	avs at	grad	e in t	his Sta	ate.	_	272
Number of c	rossing	s of h	nigh w	avs at	grad	le in	this	State	at	
which ther						_	_	_		1
Number of c	rossing	a at v	zhich	there	STA A	lectric	e or ai	ıtom:	atic	-
şignals, _	1,00bing	5 40 1		-	<b>u</b> 10 0	100011	0 01 40		•••	None.
Number of c	- Popping	of h	- ichwa	<b>. T</b> O ATO	- 	ndar	railra	ر ا الم	- 70°	140116.
Number of G	J/	. OI II.	rg m w	sys ove	Ort	muer	I all I U	au (U	ver,	1
1; under, (	//), - .:	. <b>.</b>	- 1	0 4	- - h	-	1	-	-	
Number of h	uguway	briu	Res' T	9 1661	RDOV	e trac	K,	- 1-		None.
Number of h					ın 18	ieet a	bove 1	Lack	:	
One over	empora	ry ma	un tr	ack.				. •	•	37
Have safety	guaras	peen	erecte	o at o	ver-n	eac o	ostruc	tions	<u>-</u>	No.
Are your from			rails	plocke	30. as	requir	ed by	Act 1	74,	
Session La			-	-	-	-	-	-	-	Yes.
How are they			_							
Heart foot	guard :	and p	lank	blocki	ng.					
				St	ation	8.				
Nomber of a	4-4:		L-1- 1	:						55
Number of s				ine.	-	-	-	-	- '	
Same in Mich	nigan,	-	-	-	-	-	-	•	-	55
				T.		۲				
				LA	nploye	8.				
Mambas of a		1	a=l= 4	am nla		11 .	nooda .	~~~	tod.	
Number of p	ersons	regui	arry o	em biol	you o	II 9911 1	roaus	obera	ieu	391
by Compar	ly, inci	uamg	оше	12618,	-	-	-	-	-	391
Same in Mic	nigan,	-	-	-	-	-	-	-	-	991
01				e - 17 .		-4				
·Classify your	. embro	yes as	s per	IOIIOM	ing II	St:				Number,
n										
Baggagemen	, -	-	-	-	-	-	-	-	-	5
Brakemen,	-	-	•	-	-	-	-	•	-	13
Brakemen, Conductors, Engineers.	-	-	-	-	-	-	-	-	-	9
				-	-	• •	-	-	-	9
Firemen, . Laborers, .	-	-	-	-	-	-	-	-	-	9
Laborers, -	-	-	•		-	-	•	-	-	140
Shopmen, _	-	-	-	-	-	-	-	-	•	68
Shopmen, - Yardmen, -	-	-	-	_	-	-	-	-	-	10
Others, -	-	-	_	-	-	-	-	-	-	120

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

Tonothy to Maringuin	•		
How many miles of fencing have you?  Give the number of miles required to complete fer of your track, in Michigan, and the counneeded:	nce bo	th sides n which	386.31
Sanilac county,	_		8.71
Huron county,	-	•	16.63
maron country,	-		
Total miles,	-		25.33
Road Bed and Track	e.		
Number of treet sections in Michigan			33-
Number of track sections in Michigan,	-		
Average length of sections,—miles,	-		7
Average number of men in each section gang,	-		4
Number of new ties put in whole line during th	e year	, -	55,224
Number of new ties put in track in Michigan,			55,224
Average number of new ties per mile of road,	-		253
New rails put in track:			
Steel [tons 304] miles,	•		5.53
Total miles of track laid with new rails,	-		5.53
Bridges and Culve	ris.		
Amount of treatle work repleased with earth du	ring t	ha waaw	
Amount of trestle work replaced with earth du	TITE C	пе уемг	Mono
(linear feet),	-		None.
Timber culverts replaced during the year,	-		3
With timber,—number.	-	,	3
New bridges built during the year,—number,	-	-	None.
DOLLING STOOT			
ROLLING STOCK.			
		Number.	Present Estimated Value.
Number of locomotives of 20 to 30 tons weigh	ht,		
exclusive of tender,	-	6	<b>*54,000 00</b>
Number of locomotives of 10 to 20 tons weigh	at,		
exclusive of tender,	-	7	50,760 00
Total, '	-	13	\$104,760 00
<b>37</b>			
Number of passenger cars—8-wheel, includi-	ng		
official cars,	-	22	70,000 00
Number of express and baggage cars,	-	3	3,846 00
Combination smoker, mail and baggage.	-	3	7,000 00
Number of box freight cars.	-	164)	
Number of stock cars,	-	24 }	75,200 00
Number of platform cars,	_	80	36,000 00
Number of box freight cars,  Number of stock cars,  Number of platform cars,  Number of conductors' way cars,	_	1	400 00
	-	_	****

Other cars as for Snow plows,	ollows	: -	-	-	-	-	-	2	\$1,200	00
Total,	-	-	-	-	-	-	-	299	\$193,646	00
Number of loco Number of pa	motiv ssenge	es eq er-tra	uippe sin c	d wit	h pow	er bra	kes,	_		
power brakes		_		_		· _	_	28		
Number of frei	ght ca	TB 60	uippe	ed wit	h pov	ver bra	kes,	258		
What patterns of lo westinghouse	of pow como	er bi tives com	akes and o otive	have ; cars w s, non	you ir rith ea ne; ca	use, ach? ach? ars, 28	and			_
Are your freigh Act No. 147, Yes.	t cars Sessi	beir on L	ag equ	ipped f 188	l with 5?	auto	matic	couplers a	s required	by
What pattern o McCree.	r patt	erns	have	you s	dopt	ed for	use?			

# MILEAGE, TRAFFIC, ETC.

# TRAIN MILEAGE.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	241,997 149,472
	_			
Total mileage of trains earning revenue,	-	-	-	391,469

# Passenger Traffic.

		and Quant	rs ities.	Mi	les.	1	Rate.	
Number of through passengers carried,	_	18,4	01					
Number of local passengers carried,	-	200,8	05					
Total number of passengers carried,	-	219,2	06					
Total passenger mileage, or passengers carr	ie	d one mi	le, (	6,961,4	181			
Average distance traveled by each passenger		-	-	31,	757			
Average amount received from each passeng			-	-	-	<b>\$</b> 0	77.1	
Average rate of fare per mile for through I	pa	ssengers,		-	-		02.2	
Average rate of fare per mile for local pass			-	•	-		02.5	
Average rate of fare per mile for all passen	ge	rs, _	-	<b>-</b> ·	-		02.4	

# Freight Traffic.

Number of tons of through freight carried,	22,570
Number of tons of local freight carried,	75,888
Total tons of freight carried,	98,458

Total mileage of through freight,

1,475,520

Total mileage of local freig	ht,	•		-	_ 3,	841,191	
Total freight mileage,	or ton	s cari	ied on	e mile,	- 5,	316,711	
Average ton haul of throug Average ton haul for local fr Average ton haul for all fre Average amount received fo Average rate per ton per mil Average rate per ton per mil Average rate per ton per mil	reight eight, or eacl e, rece le, rec	n ton eived	haul, for thr	ough fro cal freig	ght,		\$1 30 01.71 02 67 02.4
Freight 1	Forwar	ded a	t Michi	gan Stat	ions.		
		•				;	Forwarded, Tons.
Grain,				_	_		36,576
Flour,			_	-	-		)
Provisions (beef, pork, lard	, etc.)	,		_	_		8,63 <b>4</b>
Animals,				-	-	'	4,424
Other agricultural products	, -			-	_		6,456
Lumber and forest products	· , -		. <u>.</u>		_		16,853
			. <u>-</u>	_	-	)	•
Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee Pig and bloom iron, Other iron and castings,				_	_		
Salt,				-	-		•
Petroleum,				_	_		
Railroad iron, iron and stee	l rails			_	_	(	6,915
Pig and bloom iron,				_	_	i	-7
Other iron and castings,		_	_		•		
Ores,		_	_	-	_		
Stone, brick and sand,				-	_	<u>.</u> . J	
Manufactures,—articles ship	pped f	rom	point o	f produ	ction,	1	
Merchandise and other artic	les no	t enu	merate	d above	,	}	18,600
•					•	•	
Total forwarded, -	-	•	· -	-	-		98 <b>,458</b>
Tonnage of	Article	s Tro	insporte	ed—Enti	re Roa	<b>i</b> .	
						Tons.	Per Cent.
Grain,					_	36,576	37.15
Flour,			_	_	_ )	,_,	
Provisions (beef, pork, lard	. etc			_	_ {	8,634	8. <b>76</b>
				_	- ,	4,424	4.49
Animals,Other agricultural products			_	-	_	6,456	
Lumber and forest products				_	_	16,853	17.02
Produces	, -	•	•	•	-	10,000	11.02

			•				Tons.	Per Cent.
Coal,	_	•	-	-	-	<b>-</b> )		
Plaster, lime and cement,	_	-	_	-	-	- 1		
Salt,	_	-	_	-	_	-		
Petroleum,	-	-	_	-	-	-		
Railroad iron, iron and st	eel	rails,	-	-	-	- }	6,915	7.02
Pig and bloom iron	_	-	_	_	-	- j		
Other iron and castings,	_	-	-	-	_	-		
Ores,	-	_	_	-	_	- ]		
Stone, brick and sand,	-	-	-	-	-	_ }		
Manufactures,—articles sh	ip	ped fron	a po	int of	pro	duc-)		
tion,	-	-	-	-		_ }	18,600	18.89
Merchandise and other ar	ticl	es not e	nun	erated	abo	re, _ )		
Total tons carried,	-	_	_	<b>-</b> .		_	98,458	100.00

### ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Port Huron & Northwestern Express Company. Freight received at depots and office of Canadian Express Company.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 218 miles. Port Huron & Northwestern Railway Company.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

None.

# Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? None.



# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR.

# KILLED.

None.

# INJURED.

September 23. Charles Wait, brakeman, Port Huron; his own carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.				
Causes of Accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.		
Collisions								
Coupling cars				]	1			
Derailments								
Falling from trains		] 						
Frogs								
Getting on and off trains								
Highway crossings								
Miscellaneous								
Overhead obstructions								
Trespassers on trains			ļ					
Trespassers on tracks	.							
						ļ		
Total	·			····	1			

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year, .		-	-	
Number of persons injured during the year,		-	_	
Number of casualties purely accidental,	. <b>.</b>	-	_	
Number resulting from lack of caution, car conduct.	elessnes	88, OT	mis-	3
Persons killed or injured while intoxicated,	-	_	•	
Trespassers and tramps killed or injured,		-	-	_
Suicides,		_	_	_

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured,	Total.
Baggagemen			
Brakemen	ı	I	
Conductors	ł	3	
Engineers			
Firemen			
Laborers			
Shopmen		·	
Yardmen			
Not classified			
Total		1	

STATE OF MICHIGAN, COUNTY OF ST. CLAIR.

Henry McMorran, General Manager, and Treasurer, and F. L. Wells, Secretary, of the Port Huron & Northwestern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, HENRY McMORRAN, FRED. L. WELLS,

Subscribed and sworn to before me this 14th day of March, A. D. 1888.

E. C. CHAMBERLIN,

Notary Public St. Clair Co., Mich.

#### ANNUAL REPORT

#### OF THE

# CHICAGO & NORTHWESTERN RAILWAY COMPANY.

For the Year ending December 31, 1887.

[Filed March 15, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Chairman of the Board, ALBERT KEEP, Chicago, Ill.

President, M. HUGHITT, Chicago, Ill.

Vice President and Secretary, M. L. SYKES, New York, N. Y.

Comptroller, M. M. KIRKMAN, Chicago. Ill.

Auditor, J. B. REDFIELD, Chicago, Ill.

Treasurer, M. L. SYKES, New York, N. Y.

General Manager, J. M. WHITMAN, Chicago, Ill.

General Superintendent, S. SANBORN, Chicago, Ill.

# Assistant General Superintendent:

P. HALLENBECK, Winona, Minn.

#### Division Superintendents:

W. B. LINSLEY, Escanaba, Mich.
E. J. CUYLER, Chicago, Ill.
CHAS. MURRAY, Chicago, Ill.
G. F. BIDWELL, Baraboo, Wis.
M. HOPKINS, Boone, Iowa.
H. M. HUGHES, Eagle Grove, Iowa.
W. P. COSGRAVE, Winona, Minn.
J. S. OLIVER, Huron, Dak.

Chief Engineer, H. G. BURT, Chicago, Ill.
Superintendent of Telegraph, G. H. THAYER, Chicago, Ill.
General Passenger Agent, E. P. WILSON, Chicago, Ill.
General Freight Agent, H. R. McCULLOUGH, Chicago, Ill.
Attorney, W. C. GOUDY, Chicago, Ill.

#### DIRECTORS.

A. G. DULMAN, New York, N. Y.

M. L. SYKES, New York, N. Y.

C. M. DEPEW, New York, N. Y.

S. F. BARGER, New York, N. Y.

ALBERT KEEP, Chicago, Ill.

D. P. KIMBALL, Boston, Mass.

Term expires June, 1888.

HORACE WILLIAMS, Clinton, Iowa.

D. O. MILLS. New York, N. Y.

JOHN M. BURKE, New York, N. Y.

MARVIN HUGHITT, Chicago, Ill.

N. K. FAIRBANKS, Chicago, Ill.

Term expires June, 1889.

W. K. VANDERBILT, New York, N. Y.

PERCY R. PYNE, New York, N. Y.

H. McK. Twombly, New York, N. Y.

F. W. VANDERBILT, New York, N. Y.

WM. L. SCOTT, Erie, Pa.

JOHN I. BLAIR, Blairtown, N. J.

Term expires June, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 7, 1859	∌.			
Number of stockholders at date of last election,	-	-	_	2.799
Number of stockholders in Michigan at same date,	_	-	-	6
Amount of full paid stock held in Michigan at same date,	-	-	-	\$110,800 00
Date of annual meeting of stockholders,—First Thursday in	Jur	ie.		•
Fiscal year of Company ends May 31.				
General offices of the Company are located at Chicago, Ill.				

G	ENE	RAL	EXHI			CREDIT.	
Total income.	_	_	_	DEBIT.		\$27,140,725	24
Total expenses, including taxe	88, .	-	-	\$16,010,266			
Net income,	_	_	_			11,130,458	63
Interest on funded debt.			_	\$5,230,793	21	,_,	
Sinking funds,	_	_	_	58,000		1	
J ,						5,288,793	21
Balance applicable to dividend Dividends declared:	ls,	-	-		-	\$5,841,665	42
6 per cent on common,	_	_	-	\$1,881,894	00	ı	
7 per cent on preferred,	-	-	_	1,562,610			
						3,444,504	00
Balance for the year, .	-	-	-		-	\$2,397,161	42

Balance (profit and loss) last year, Less items not included in above as follows: Amount transferred to "Cost of Road" on account of Net Income expended for con-	\$14,388,043 63
struction purposes prior to May 31, 1886, and not capitalized,  Amount transferred to represent balance of computed interest on bonds accrued but not	\$10,000,000 00
charged up,	W02 0 0 0
Balance forward to next year,	6,023,145 47

**\$**16,785,205 05 **\$**16,785.205 05

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,—No fixed amount. Par value of shares, \_ \_ \_ \$100 00 Common stock outstanding (including stock of proprietary railroads), \_ \_ \_ \$52,540,115 97 Preferred stock, \_ \_ \_ \_ 22,325,454 56

Total amount outstanding as per books of the Company, \$74,865,570 53

Paid in per mile of road,—4,208.79 miles, \_ \$17,787 91

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT, DECEMBER 31, 1887.

Name of Bond.	Issued.	Due.	Per Cent,	Payable.	Amount.
Detroit & Madison	Jan. 1, 1863	Jan. 1, 1888	7	Jan. 1 and July 1	\$78,000
Peninsula R. R.	July 1, 1863	Sept. 1, 1898	7	M'ch 1 and Sept. 1	152,000
Consolidated Sinking Fund	Jan. 16, 1865	Feb. 1, 1915	7	Feb. 1 and May 1 ( Aug. 1 and Nov. 1	12,673,000
Chicago & Milwaukee Railway	Jan. 1, 1863	July 1, 1898	7	Jan. 1 and July 1	1,700,000
Milwaukee & Madison Railway	Sept. 1, 1880	Sept. 1, 1905	6	M'ch 1 and Sept. 1	1,600,000
Chicago & Tomah	Sept. 1, 1880	Nov. 1, 1905	6	May 1 and Nov. 1	1,528,000
Chicago, Milwaukee & N. W. R'y.	May 1, 1882	Nov. 1, 1905	6	May 1 and Nov. 1	750,000
Northwestern Union Railway	June 1, 1872	June 1, 1917	7	M'ch 1 and Sept 1	8,500,000
Madison Extension	Apr. 1, 1871	Apr. 1, 1911	7	Apr. 1 and Oct. 1	8,150,000
Menomines Extension	June 1, 1871	June 1, 1911	7	June 1 and Dec. 1	2,700,000
General Consolidated Gold	Nov. 80, 1872	Dec. 1, 1902	7	June 1 and Dec. 1	12,343,000
Menominee River R. R	July 1, 1876	July 1, 1906	7	Jan. 1 and July 1	400,000
Menominee River Extension	Jan. 1, 1880	July 1, 1906	7	Jan. 1 and July 1	160,000
Escanaba & Lake Sup. Railway	July 1, 1881	July 1, 1901	6	Jan. 1 and July 1	720,000
Consolidated S. F. of 1879	Oct. 1, 1879	Oct. 1, 1929	6	Apr. 1 and Oct. 1	6,305,000
Consolidated S. F. of 1879	Oct. 1, 1879	Oct. 1, 1929	5	Apr. 1 and Oct, 1	8,155,000

# FUNDED DEBT,-Continued.

Name of Bond.	Issued.	Due.	Per Cent.	Payable.*	Amount.
F. Debentures of 1938	May 1, 1883	May 1, 1933	5	May 1 aud Nov. 1	10,000,000
ebentures of 1909	July 1, 1884	Nov. 1, 1909	5	May 1 and Nov. 1	4,000,000
hicago, Iowa & Neb	Aug. 15,1862	Aug. 15, 1892	7	Feb. 15 and Aug.15	129.000
R. & M. R., 1st Division	Aug. 1, 1861	Aug. 1, 1891	7	Feb. 1 and Aug. 1	700,000
R. M. R., 2d Division	Aug. 1, 1868	Aug. 1, 1894	7	Feb. 1 and Aug. 1	582,000
. R. & M. R., 3d Division	May 1, 1866	May 1, 1916	7	May 1 and Nov. 1	2,832,000
R. & M. R., 7 per cent mortgage	June 1, 1884	July 1, 1909	7	June 1 and Dec. 1	769,000
aple River R. R	July 1, 1877	July 1, 1897	7	Jan. 1 and July 1	402,500
7. & St. P. R. R., 1st mortgage	Apr. 10, 1867	Past due	7	•••••	2,000
7. & St. P. R. R., 2d mortgage	Nov. 1, 1867	Nov. 1, 1907	7	May 1 and Nov, 1	1,592,000
. St., P. R. R., Extension, Gold	Dec. 1, 1871	Dec. 1, 1916	7	June 1 and Dec. 1	4,253,000
inn. Valley Railway	Oct. 1, 1878	Oct. 1, 1908	7	Apr. 1 and Oct. 1	150,000
och. & North, Minn. Railway	Sept. 1, 1878	Sept. 1, 1908	7	M'ch 1 and Sept 1	200,000
lainview R. R.	Sept. 1, 1878	Sept. 1, 1908	7	M'ch 1 and Sept. 1	100,000
ak. Cent. R'y (W. & St. P. Con.).	May 1, 1883	Sept. 1, 1907	6	M'ch 1 and Sept. 1	1,085,000
ak. Cent. R'y (Southeast Div.)	Nov. 1, 1882	Nov. 1, 1907	6	May 1 and Nov. 1	2,000,000
wa Midland Railway	Aug. 1, 1870	Oct. 1, 1900	8	Apr. 1 and Oct 1	1,850,000
tt. C. F. & St. P. R'y	M'ch 1, 1884	M'ch. 1, 1909	5	M'ch l and Sept 1	1,600,000
es. M. & M. R. R.	Feb. 1, 1882	Feb. 1, 1907	7	Feb. 1 and Aug. 1	600,000
orth. Ill. R'y Co	Apr. 1, 1885	M'ch 1, 1910	5	M'ch 1 and Sept. 1	1,500,000
& N. W. R'y Extension of 1886.	Apr. 15, 1886	Aug. 15,1926	4	Feb. 15 and Aug. 15	11,842,000

<sup>\*</sup> Payable in New York.

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated.	Amount,
For construction		
For equipment		
For real estate (coal lands	Will probably be paid in cash	\$125,000 00
For renewals		 
For miscellaneous		
For current balances	Wili probably be paid in cash	\$4,476,060 95
Total unfunded debt		\$4,601,080 95

# RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-		3101,077,500 0 4,601,080 9	
Total debt liabilities,	-	-	-	-	-	-	•	105,678,580 9	2
Amount of debt liabilities	per	mile	of 1	oad,-	-4,208.	79		<b>25,109</b> 0	2
Total amount of stock and Stock and debt per mile of			- -	<u>-</u> -	<u>.</u>	-	-	180,544,151 4 42,896 9	5
		,	,	_				,	
GEN	ERAI	BAL	ANC	E SHI	CET.—D	B.			
Construction account, Equipment account,	-	-	-	-	-	-	1	132,176,634 3 24,891,740,5	5 9
Other investments (specify Bonds owned by Compa	ing	same)	:	-	<b>\$</b> 9,618	-	00	,,	•
	цу, 	-	-	-	12,647			00 005 400 0	
Cash items:				-				22,265,468 2	Z
Cash, Bills receivable, _	-	-	-	-	\$4,429 70	),061 ),415			
Due from agents,	-	-	-	-		,966			17
Other assets:  Materials and supplies, Debit balances from con	- mnan	- Jag a	nđ :	indi-	\$2,074	,950	65	•	<b>,</b> 1
viduals,	- -	-	-	-	733	,735	66 —	2,808,686 3	31
Total,	-	-	-	-	-	-	•	3187,619,973 4	- 18
								•	
GEN	ERAI	L BAL	ANC	E SHI	EET,—C	R.			
Capital stock,—including a Funded debt,—including	stock stock	s of p	ropr opri	ietary etary	compar compar	nies, nies,	-	\$74,865,570 5 101,077,500 0	
Unfunded debt: Interest unpaid,					<b>\$</b> 1,504	K10	7/1		
Dividends unpaid,	-	-	-	-	3	1,150	00		
Notes payable, Vouchers and accounts,	- ·	-	-	-	128 2,940	5,000 ),411			
Other liabilities (list as fol		١.						4,601,080 9	3.
Land income account, Profit and loss or income	-	_	-	-	- -	• •	-	1,052,676 5 6,023,145 4	
Total,	-	-	_	-	-	-	•	187,619,973 4	_

**\$1**,680,312,00

**\$9,679,508 68** 

Extensions

# COST OF ROAD AND EQUIPMENT,

Total Cost for Construction and Equipment of 1	Road and Branches Built and Purchased
bỳ Compan	y.

Total expended for construction and equipment, _ \$157,068,374 9. Average cost per mile of road (not including sidings),—4,208.79										
miles, Proportion of cost for Michigan,		•	•	- -	-	37,319 12,863,899				

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

тат гопогопо,	-	-	-	-	-	-	-	-	-	Φ1,000,01 <i>0</i>	vv
Second track,	-	-	_	_	-	-	-	-	_	443,350	90
New buildings	and	bridge	98,	-	-	-	_	_	_	784,613	44
New fences,	_	- "	•	-	_	-	_	-	_	55,212	70
Machinery and	l tools	3	_	_	_	_	-	-	-	12,131	68
New locomotiv		´ _	_	-	_	_	_	_	_	254,477	98
New cars,		-	-	-	-,	-	-	-	-	368,184	
Total char-	•	• •	Ī		nt as	abov	78, _	-	-	<b>\$3,598,343</b>	32
Income expe	poled	for co	nnetr	nctio	hand	not					
capitalized,	Juana	101 0	J110 VI	400101	unu	400	<b>\$</b> 10.0	00,000	00		
	,		-	-	-	-					
Proceeds of				-	-	-		28,000			
Discount on	secu	rities,	etc.,			_	3.	49,852	00		
		•	•					•		\$13,277,852	$\Omega$

# ANALYSIS OF EARNINGS.

Net credit to property account,

#### PASSENGER EARNINGS.

Main line and brand Local fares, - Through fares,	hes: - -	-	-	-	-		-	-	\$5,835.374 362,128	
Total passenger	fares,		-	-	-	-	-	-	\$6,197,502	98
Express, - Mails,	<u>.</u>	-	-	-	-	- -	-	-	388,431 5 <b>34,</b> 493	
Total passenger	earnir	ıgs,	_	-	-	-	-	-	\$7,110,428	10
Proportion for Mi Per train mile, Per mile of road,	chigan - -	, -	-	- -	• •		2,929 1 1,721	09.	24	

#### FREIGHT EARNINGS.

Main line and brance Local traffic,	-	-	-	-	-	<b>\$18,052,421</b>		
Through traffic,	-	•	-	-	-	1,620,706	97	
Total traffic,	-	-	-	-	-	<b>\$</b> 19,673,128	35	
Total freight ea	rning	B, .	-	-	-		-	\$19,673,128 35
Proportion for Mi	chigan	١.	_	_	_	1,529,845	42	
Per train mile,	-	·_	_				42	
Per mile of road,	-	-	-,	-	-	4,762	01	
Total transport	ation e	arnin	ıgs,	-	-		-	\$26,783 556 45
Transportation earn	ings n	er mi	le of	road.	_	6,443	14	•
Transportation earn					_			.46
Miscellaneous receip					ınt		-	
other than for tra						,		
For rentals of trac	ska or	tarmi	nale	7110 112	•	28,950	50	
From other source		001 111	mui,	-	-	328,218		
Tiom other source	,	-	-	-	-			•
Total,	-	-	-	-	-	\$357,168	79	•
Total earnings	from c	perat	ion of	road	,		-	\$27,140,725 24
Total earnings per	mile of	road				6,569	60	
Total earnings per			, -	-	Ī			.21
Proportion of earning			higan.	*	•	2,110,549		
Total earnings per					หา		•	
(proportional),	-	-				5,108	78	3
Total income for	rom al	l sour	ces,	-	-	- •	-	\$27,140,725 24
Proportion of incom	ne for	Mich	igan,	-	-	2,110,549	66	;
*The "Proportion of by proportion as follows:	_	for Mi	ichigan,	" as giv	en i	above in answer	to ti	ne question, is found
Average number of miles Gross earnings of all mile Average miles operated in Giving proportion for Mi	es opera n Michig chigan.	ted			• • • •	•••••••	· · · · · ·	\$27,140,725 24 
To enable the State of	Michig	an to c	ompute	a tax i	n ac	cordance with a	ecti	on 8, article 8 of act

#### CHICAGO & NORTHWESTERN BAILWAY.

number 174, approved June 7, 1883, a further report is here made as follows:

The length of road actually consolidated and représented by the Capital Stock of the Chicago & Northwestern Railway Company is 2,518.71 miles, of which the average number of miles operated twelve months is 2,508.57, and the number of miles of such road operated in the State of Michigan is 309.54, and the average miles operated in Michigan twelve months is 309,54.

Using the average miles of consolidated road with the gross earnings thereof, the proportion for Michigan is found as follows:

# ANALYSIS OF EXPENSES,

# CLASS 1.—Maintenance of Way and Buildings.

		_						
Repairs of roadway s	and tra	ack,	_	_	-	-		<b>\$1,848,982 23</b>
Renewals of rails,	_		_	-	_	_		287,108 91
Renewals of ties,					_	_		347,091 79
Repairs of bridges, i	- - -	in.a	- leosta	-		-		
Densing of farmers	norua	ıng cu	TAGLER	wing	Carrie		us, _	350,622 52
Repairs of fences, ro	aa cr	ossing	s, and	i sign	18,	-		162,913 20
Repairs of buildings	,	-	-	-	_	-		391,524 44
_								·
Total, -	-	-	-	-	-	-		<b>\$3,388,243</b> 09
CLASS	2.—M	ainten	ance o	f Mot	ive Po	wer a	nd Care	t.
Denoise of leasuration								A1 017 000 F4
Repairs of locomotiv		-	-	-	-	-		\$1,015,603 54
Repairs of passenger	cars,	•	-	-	-	-		352,078 08
Repairs of freight c	ars,	-	-	-	_	-		990,483 34
Total,	-	-	-	-	-	-		<b>\$2,358,164</b> 96
	CLASS	8.—C	onduci	ing I	ranspo	rtatio	m.	
Fuel for locomotives								\$1,760,259 48
Weter apple	, -	-	-	-	-	-		
Water supply,	-	-	-	-	-	-		104,154 58
Oil and waste,	-	-	-	-	-	-		219,099 18
Locomotive service,		-	-	-	-	-		
Passenger train serv	ice,	-	-	-	_	_		356,539 1 <b>4</b>
Passenger train supp	olies.	_		_	_	_		75,662 51
Mileage of passenger	Cata.		_					13,926 75
Freight train service		-	_	_	_	-	_	966,295 59
Freight train suppli	') ^=	-	-	-	-	-		24,401 91
Miles as of family	08,	-	-	-	-	-		
Mileage of freight of	ars,	. <b>-</b>		-	<del>-</del>	-		64.906 84
Telegraph expenses	(main	tenan	ce and	oper	ating)	,		<b>3</b> 77,951 77
Damage and loss of	freigh	ıt and	bagg	age,	-	-		53,091 <b>55</b>
Damages to property	and	cattle	,	-	-	-		42,266 91
Average miles of consolids Gross earnings of consolid Average miles operated in Giving "proportion of ear	ated ro Michig	ad						\$22,779,555 49 809.54
	IRON	RIVER	RAILWA	Y (ALI	IN MI	HIGAN	).	
The length of road re								Railway Company is
85.16 miles, of which the a								
Total gross earnings								\$24,875 76
Proportion for Michigan (	all)				•			24,875 76
	IRON	RANGE	RAILW	AT (AL	LIKMI	CHIGAI	<b>4).</b>	
Now under construction ;								•
Miles built								None.
Miles operated								None.
Gross earnings								

02	MIC	HIGA	N KAI	TKO	AD KI	STURE	18.		[Dec.	81.
Personal injuries, Agents and station a	ervice	- e. incl	luding	- <b>\$</b> 10.	- .980.9	3 var	- l servi	- ice.	\$193,875 2,179,059	
Station supplies,	-	-	-	-	-	-	-	-	85,594	
Total,	-	-	-	-	-	-	-	-	\$8,390,840	49
	•	CLASS	4.— <i>G</i>	enera	l Exp	enses.				
Salaries of the gene	ral of	icers	of th	e Co	mpan	у,	-	-	\$150,350	00
Salaries of clerks in				_	_ '	-	-	-	256,367	72
Law expenses, _	<b>-</b>	_	′	-	_	-	_	_	68,846	
Insurance,	_	-	_	-	_	_	-	_	1,583	51
Stationery and print	ing,	_	_	-	-	-	_		167,767	
Outside agencies and		rtisin	g.		٠_	_	-	_	312,817	
Contingencies, -		_	•	_	_	_	_		204,788	
Taxes,	-	-	-	-	-	-	-	-	710,497	
Total,	_	-	-	-	-	-	-	-	<b>\$1,873,018</b>	07
			ULATI	OM C	F EX	PENSI ·	Per of Exp			
Maintenance of way				-	-	-		.16		
Maintenance of mot	ive po	wer a	nd car	rs,	-	-		73		
Conducting transpor	tation	1,	-	-	-	-		.41		
General expenses, in	cludii	ng tax	K08,	•	-	-	. 11	.70	1,873,018	07
Total operating	exper	1808 &	nd tax	ев,	-	•	100.	.00	16,010,266	61
Operating expenses a Operating expenses a for trains earning Proportion of opera Michigan,	and to revenu	10,—2	per tr 20,373	ain 1 .527	nile r miles,	un, , - for	3,875 5,009	78.	58	
Total proportion	of e	xpens	ses for	Mic	higan	, -	-	-	\$1,245,009	5?
Percentage of expens Net earnings per mil Net earnings per tra	e of r	oad,	s to ea - -	rnin; - -	gs, 58. -		2,694	20 54.	33	

# DESCRIPTION OF ROAD.

# Date when the road was opened for use between its present termini:

Termini.	When Built.	Miles.
Escanaba to Negaunee	In 1864	62,00
Negaunee to Lake Angeline	In 1870	6.00
Marinette to Escanaba	In 1873	64,65
Powers to Quinnesec	In 1877	24.71
Quinnesse to Menomines River	In 1880	3.18
Second Crossing of Menominee River to Crystal Falls	In 1882	12.20
Iron River Junction to Stambaugh	In 1882	19.50
Narenta to Metropolitan	In 1883	84,86
Iron River to Watersmeet	In 1887	85.16
Branches to mines;		
Off Main Line	At various dates	40.85
Off Menominee R. R. R. Line	At various dates	28.20
Off Escanaba & Lake Superior Line	At various dates	8.44
Total		844.70

# MAIN LINE OR CONSOLIDATED ROAD.

# Road Belonging to Chicago & Northwestern Railway.

Divisions.	Total.	Illinois.	Iowa.	Wiscon- sin.	Michi- gan,	Minne- sota,	Dakota
Lines chartered as or consolidated with Chicago & Northwestern Railway:							
Chicago to Council Bluffs	491.00	187.88	858.12				ļ
Chicago to Freeport	120.00	121.00					
Geneva to Aurora	9.40	9.40	ļ				
Geneva to St. Charles	2.40	2.40	ļ			<b></b>	
Eigin to Lake Geneva	45.04	85.82		9.22			
South Branch Junction to River (Chicago)	4.50	4.50				ļ	
Clinton to Anamosa (Quarry)	78.57		78.57				
Stanwood to Tipton	8.50		8.50				
Out off near Cedar Rapids	5.96	ļ	5,96				
Des Moines to T. & N. W. Con	57.84		57.84				
Belle Plains to Muchakinock	64.00	<b></b>	64.00		<b></b>		ļ
Maple River Junction to Onawa	80,85		80.85		ļ		
Wall Lake to Moville	79.87		79.87				
	L		•	1	,		•

# MAIN LINE .- Continued.

Divisions.	Total.	Illinois.	Iowa,	Wiscon- sin.	Michi.	Minne- sota.	Dakota.
Boone to Coal Banks	8.25		8.20				
Carroll to Kirkman	34.81		84.81				
Manning to Audubon	55.00		17.00				ļ
Chicago to Fort Howard	242,20	69.78		178.47			
Appleton Water Power Extension	8,68			8.68			
Kenosha to Rockford	72.10	44.08		28.07			<u> </u>
Chicago to Montrose	5,90	5.20					
Chicago to Milwaukee	85.00	44.60	 	40.40			İ
Milwaukee to Fond du Lac	62,63		<b> </b>	62.63			l
Sheboygan to Princeton	78.40			78.40			
Milwaukee te Montfort	140.88			140.88			
Montfort to Galena	46.84	10.80	l	86.04			
Montfort to Woodman	80.50		<u></u>	80.50			
Platteville Junction to Piatteville	4.00		<b></b>	4.00			
Lancaster Junction to Lancaster	12.04		<u> </u>	12.04			
Janesville to Afton	6.10			6.10			
Belvidere to Winona	227.00	21.00		205.87		.18	
Winons Junction to La Crosse	8.96			8.96			
Trempealeau to Galesville	6.71			6.71			
Evansville to Janesville	16.10			16.10			
Ft. Howard to Ishpeming	182.10			49.45	182.65		
Powers to Crystal Falls	58.77			18.78	45.04		
Iron River Junction to Stambaugh	19.50				19.50		
Narenta to Metropolitan	84.86				84.86		
Branches to mines :					32,33		
Off Main Line	40.85				40.85		
Off E. & L. S. Line.	8.44				8.44		
Off Menominee River Line	82.91			4.71	28.20		••••••
Total	2,518.71	505,88	778.27	924,91	309,54	.18	

	Miles, 100	ths. Miles. 100ths.
Total length completed,	-	. 2,518 71
Total length of branches owned by Company in Michi-		•
gan,	77	49 ·
Total length of road belonging to this Company,	-	. 2,518 71
Total length of road belonging to this Company in Michi-		•
gan,	309	54

Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, approximate, \_Aggregate length of tracks in Michigan belonging to this Company, computed as single track, approximate, Gauge of track in Michigan, 4 feet 8½ inches.

Miles, 100ths. 56 43

365 97

# Proprietary or Leased Roads Operated by this Company.

# Name, description, and length of each:

Proprietary Lines.	Total.	Illinois.	Iowa.	Wiscon- sin.	Michigan.	Minne- sota.	Dakota.
Northern Illinois Railway	77.00			· · · · · · · · · · · · · · · · · · ·			
Belvidere to Spring Valley		77.00					
Sycamore & Cortland R. R	4.64						
Sycamore to Cortland		4,64					
Princeton & Western Railway	16.06						
Valley Junction to Necedah				16.06			
Iron River Railway	85.16						
Iron River to Watersmeet					85.16		
Toledo & Northwestern Railway	385.19						
Tama to Elmore			164.58				
Jewell June. to D. M. & M. Con			1.75				
Jewell Junc. to Wall Lake Jc			78.68				
Eagle Grove to Hawarden			145.20	 			
Winona & St. Peter R. R	448,48						
Winona to Watertown						288.50	84.4
Mankato Junc. to Mankato						- 3.75	
Sleepy Eye to Redwood Falls	 					84.40	
Rochester to Zumbrota		 				24.48	
Eyota to Plainview		 				15.01	
Eyota to Chatfield						11.46	
Tracy to Dakota Line						46.40	
Dakota Central Railway	728.55						
Minnesota State Line to Pierre		 		ļ			209.1
James Valley Junc. to Oakes	 				 		181.4
Watertown to Redfield	<u> </u>	 				 	71.0
Watertown Junc.to Watertown							48.8
Iroquois to Hawarden (St. Line)		 					125.4
Centreville to Yankton							28.4
Redfield to Gettesburg	i						75.8
Doland to Groton							88,8
Total	1.690.08	81.64	385.19	16.06	85.16	414.00	758.08

# Recapitulation.

			,		_		<del></del>
Proprietary Lines.	Total.	Illinois.	Iowa.	Wiscon- sin,	Michigan,	Minne- sota,	Dakota,
C. & N. W. Railway (chartered or consolidated)	2,518.71	505.86	778.27	924,91	809.54	.18	
Proprietary Lines	1,690.08	81.64	885.19	16 06	85.16	414.00	758.03
Total miles	4,208.79	587.50	1,163.46	910.97	844.70	414,18	758.03

# Number of Bridges and Trestles in Michigan.

Wooden bridg	ges, n	ambe	r of,	_	19,	aggreg	ate i	leng	th, f	eet,		2,450
Iron bridges,				_	3;	aggrege	ate l	leng	th, fe	eet.		348
Combination	bridge	s, nu	mber e	of,	2;	aggrega	ate i	leng	th, f	eet,	)	352
Wooden trest				-	191;	aggreg	ate l	leng	th, fe	et,		20,126
Total,	-	-	-	-	215;	-		-	-	_		23,276

### Draw Bridges in Michigan.

How many on your line?	-	-	-	-	-	-	- }	None.
Where located, when built	, and	lengtl	h of d	lraw	span,	-	۔ ۶	доце.

#### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Wisconsin & Michigan R. R., at Menominee (3 crossings).
Duluth, South Shore & Atlantic R. R., at Lake Angeline.
Duluth, South Shore & Atlantic R. R., at Negaunee.
Milwaukee & Northern R. R., at Antoine.
Minn. S., Ste. M. & Atl. R. R., at Narenta.
Minn. S., Ste. M. & Atl. R. R., at Hermansville.
What railroads areas your road either over or under your grade in this State.

What railroads cross your road either over or under your grade in this State, and where?

Over grade:

Duluth, South Shore & Atlantic R. R. at Negaunee. 2 Minn. S, Ste. M. & Atl. R. R., at Flat Rock. Milwaukee & Northern R. R., at Antoine.

Number of highway bridges, less than 18 feet above track,

At what crossings are interlocking and derailing switches in operation?

None.

Number of crossings of highways at grade in this State,

Number of crossings of highways at grade in this State, at
which there are gates or flagmen,

Number of crossings at which there are electric or automatic
signals,

Number of crossings of highways over or under railroad
(over, —; under, 4),

Number of highway bridges, 18 feet above track,

None.

None.

1887.]	CHI	CAGO	& N	ORTH	WEST	ERN	RAILV	VAY (	CO.	67		
Have safety-g	Yes.											
Are your frog Session Lav	Yes.											
How are they												
Oak block fitted to space and renewed as required.												
•												
Number of st												
and agents,	-	677										
Same in Mich	igan,	at whi	ich ti	nere a	re bu	aildin	gs and	i age	nts,	32		
	Employės.											
Number of p												
by Compan	y, incl	uding	offic	ials,		-	-	-	-	16,915		
Same in Mich Classify your	ugan,	-	-	-	-	-	-	-	7	1,098		
Classify your	embro	yes as	per .	rollo M I	ing ii	.86:				Number.		
Baggagemen,	—trair	1, -	-	-	-	-	-	_	-	291		
Brakemen, Conductors,	-	-	-	-	-	-	-	•	•	1,139		
Conductors,	-	-	-	-	-	•	-	-	-	617		
Engineers,	-	-	-	-	-	-	-	-	-	928		
Firemen, Laborers, incl	ndina	- -	n lab	-	-	•	-	-	-	949 5,227		
Shopmen,		86011	)H 198	,01618	-	-	•	-	-	1,747		
Yardmen,	•	•	-	-	-	<u>.</u>	-	•	-	740		
Others,	-	-	-	-	-	-	-	-	-	5,277		
			REPA	IRS A	ND R	ENEW	ALS.					
			F	encing	in Mi	ichigar	ı.					
How many m	iles of	fenci	ng ha	ve vor	1 ?	_		_	_	269		
Give the nun sides of you needed:	aber o	f mil	es re	quired	to o	omple he cou	ete fe inties	nce b in.wh	oth ich			
Delta, .	_	_	_	_	_	1 _	`_	_	_	30.98		
Menominee,	-	_	-	-		-	•	-	•	83.75		
Marquette,	-	-	-	•	-	-	-	-	-	127.69		
Total,	-	-	-	-	-	-	-	-	-	242.33		
_			R	oad Be	d and	l Traci	k.					
	•											
Number of tra Average length							-	-	-	53 6.50		
Average num							- -abon1	- :_	•	3.50		
Number of ne									:	1,044,011		
Number of ne	w ties	put i	n tra	ck in l	Michi	igan,	-		•	64,454		
Average num							-	-	•	254		

	( 8 Howe types Wood Inne 6												
Location.	Kind.	Materia	L.	Month built.	Feet in length.								
With iron pipe,—num With sewer pipe,—nu With timber,—numbe New bridges built during	nber,	· ·	-		chigan.								
Amount of trestle work (linear feet), Timber culverts replaced			the	-	one in								
Bridges and Culverts.													
New rails put in track: Steel [tons 14,319 216 Total miles of track laid			<u>-</u>	-	1 <b>43</b> 1 <b>43</b>								

Iron River to Watersmeet	8 Howe truss 53 pile bridges	Wood	1	e & July . to July	576 8,856
Total					4,482
	ROLLING S	TOCK.	Number.	P	resent
Number of locomotives of exclusive of tender,			578	Leuma	ted Value,

			_				Number.	Estimated Va	lue,
Number of loce exclusive of	tender.	_	_	_	_		578		
Number of loc	omotives	of 20	to 30	) ton	s weig	zht.			
exclusive of		_	_	_	. `	-	156		
Number of loc		of 10 t	on we	ight,	exclu	Bive			
of tender,		-	-	•	-	-	2		
Total,		-	-	-	-	-	736	<b>\$3,385,</b> 600	00
Number of p	aggenger	Cars	.12.wł	neel.	inelné	ling			
parlor and o			170 11 1	,	1110141	8	228	576,000	00
Number of			_8.wh	eel. i	inelnd	lino	~~0	0,0,000	•
official cars.		Out	0 11 12		. moruo	Б	86	206,400	00
Number of exp		hagga	- ZA CRTS	-	-		112	112,000	
Number of box	r freight	Care	50 041	- دی	-	-	12,566	3,769 800	
Number of sto					-	-	1,914		
Number of pla					-	-	3,647	•	
Number of ore					-	-	4,198	•	
Number of cor				-	-	-	417	250,200	
Other cars as		way ca	10,	-	-	-	411	200,200	vv
Dining,						9			
Milk, -		-	-	-	-	28			
		-	-	-	-	26			
Mail,		-	-	-	-				
Combination		-	-	-	-	50			
Boarding (f	-	-	-	•	-	18			
Damp, .		-	-	-	-	25			

Pile drivi		recks,	_	_	-	•	28	Num	ber.	Presen Estimated V	t alue.
Ditchin	g, -	-	-	-	-		82		266	\$223,700	00
Total,	-	-	-	-	-	-	-	23,	434	\$7,290,220	00
Grand	total,	-	-	-	-	-	-	-	_	\$10,675,820	00
Number of l Number of									<b>4</b> 69	•	
power brancher of	akes,	-	-	-	-	-	-		539		
brakes,—i What patter and numb Locomoti	about, rns of poer of lo	- ower b comoti	rakes ves s	have	you rs wi	in h e	use, ach?		217		
Locomoti Passenger Freight c Are your fre by Act N	fes, with cars, w ars, with eight car	n West ith We n West rs bein	inghesting inghe g eq	ouse a shouse ouse as uipped	ir bra air l ir bra d wit	ke, rak ke, 2	445. e, 539. 217.	c coi	aple	rs as requ	ired
Yes. What patter The Block						d fo	r use?				

### MILEAGE, TARIFF, ETC.

### 1rain Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	6,508,959 13,864,568
Total mileage of trains earning revenue,	-	-	-	20,373,527

### Passenger Traffic.

Number of through passengers carried, Number of local passengers carried,	Numbers and Quantities 71.015 - 10,391,893	Miles.	Rate.
Total number of passengers carried,	10,462,908		
Total passenger mileage, or passengers care Average distance traveled by each passenger	ried one mile, 2 or,	266,543,852 25.48	
Average amount received from each passe	nger,		<b>\$0 59.23</b>
Average rate of fare per mile for through			02.42
Average rate of fare per mile for local pas		_	02.32
Average rate of fare per mile for all passes			02 33

### Freight Traffic.

Number of tons of throcarried,			_	399,8 437,6				
Total tons of freight c	arried	l,	_ 10,	837,4	83			
Total mileage of through frozal mileage of local freig			-	-	:		,191,130 ,791,913 ————	
Total freight mileage,	or tor	18 car	ried o	ne m	le,	1,905	,983,043	
Average ton haul for throu Average ton haul for local Average ton haul for all fre Average amount received for Average rate per ton per mi Average rate per ton per mi Average rate per ton per mi	freight, or each le, reach	t, ch tor ceived	hau l for d for	throu local	freig	ht,		1 81 0.94 1.04 1.03
• • •					J			
Freight	forw	arded (	at Mi	chigan	Stati	ions.		Forwarded Tons.
Grain,	-	-	-	-	-	-		836
Flour,	-		-	-	-	-		327
Provisions (beef, pork, lard	ı, etc.	),	-	-	-	-		424
Animals,	-	-	-	-	-	-		1,003
Other agricultural product		-	-	-	-	-		2,256
Lumber and forest product	18,	-	•	-	-	-		306,320
Coal,	-	-	-	-	-	-		51,539
Plaster, lime and cement,		-	-	•	-	-		263 69
Salt, Potroloum	-	-	-	•	-	-		426
Petroleum,	.]:1	_	•	-	-	-		933
Dig and bloom iron	31 LWII	8,	-	-	-			30,775
Pig and bloom iron, Other iron and castings,	-	-	-	•	-	-		367
Ores,	-	-	•	-	-	-		1,833,276
Stone, brick and sand,	-	-	-	-	-	-		4,894
Manufactures,—articles sh	- innad	from	- noin	t of n		- ation		5,857
Merchandise and other art	ippeu iolog i	not or	ο mino.	rotod or p	a how	, , , , , , , , , , , , , , , , , , ,		37,567
Dictonandise and other art	icies i	non ei	ı u me.	lavcu	abort	- ·		01,501
Total forwarded,	-	-	-	-	-	-		2,277,232
Tonnage of	' Artic	cles Tr	anspo	rted—	Entir	e Road	Tons.	Per Cent.
Grain	-	-	-	-	-	. 1	,557,171	
Flour,	•	-	_ '	•	-	-	184,236	
Provisions (beef, pork, lard	l, etc.,	•	-	-	-	-	136,790	1.27

				•				
							Tons.	Per cent.
Animals,	-	-	-	-	-	_	486,184	4.49
Other agricultural produ	ıcts,	-	_	-	-	-	365,258	3.38
Lumber and forest produ	acts,	_	_	-	-	_	1,213,611	11.19
Coal,		-	-	_	-	-	1,515,448	13.99
Plaster, lime and cemen	t, _	_	_	_	_	_	85,983	.79
Salt,	· _	-	-	_	-	-	46,158	.43
Petroleum,	_	-	-	_	_	_	59,261	. 55
Railroad iron, iron and a	steel r	ails.	_	_	-	-	233,172	2.15
Pig and bloom iron,	_	-	_	_		-	116,409	1.08
Other iron and castings,	, -	-	-	_	-	-	24,517	.23
Ores,	_	-	_	_	_	_	2,409,108	22.22
Stone, brick and sand,	-	-	-	-	-	_	309.641	2.85
Manufactures,—articles	shippe	ed fro	m po	int of	prod	luc-		
tion,		_	•	-	-	_	5.2,985	5.10
Merchandise and other	article	s not	enun	nerate	d ab	ove,	1,541,551	14 22
Total tons carried,	-	-	_	-		_	10,837,483	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company and United States Express Company. For terms and conditions as to rates, see statement attached. The express com-

panies have no care of machinery or repairs of cars.

They do a miscellaneous business, restricted to lighter articles properly belonging to express business. The express companies deliver their freight into this Company's care.

	급용	200	a a	70	1 2 H	1
Route.	Rate per diem on Limited Tonnage, — Whole Route.	Limit of Pounds to be Carried cach Day, whole Route, at Regular Per Diem Rate,	Tonnage for Week of S Days.	Tonnage for Week Seven Days.	Rate per 100 Pounds Carried whole Length of Route, to be Paid on Excess of Tonnage.	Remarks.
American Express Company.						
Chicago to Council Bluffs	<b>\$2</b> 75 00	15,000	90,000	105,000	\$1.25 1.00	On merchandise. On fruit, fish, oysters, and vegetables.
Chicago to Freeport	, 80 00	12,000	72,000	84,000	50	
Elgin to Lake Geneva	5 00	2,000	12,000	14,000	25	
Chicago to Ishpeming	281 43	10,000	60,000	70,000	1 50	On merchandise. On fruit, fish, oysters, fresh meat and vege- tables.
Kenosha to Rockford	5 07	1,000	6,000	7,000	85	
Chicago to Winona	185 88	10,000	60,000	70,000	1 05 60	On merchandise. On fish, cysters, fruit, and vegetables.
W. & St. P. R. R. & branches, including Dakota Division	104 95	6,666	40,000	46,666	1 50 1 00	On merchandise. On fish, fruit, vegetables, oysters and fresh meat.
Clinton to Anamosa	6 25	1,000	6,000	7,000	80	
Stanwood to Tipton	2 00 11 18	500 1,500	000,8 000,9	8,500 10,500	25 80	
Des M. & Minne, R. R	10 00	2,000	12,000	14,000	85	•
Northern Iowa Divison	25 52	2,000	12,900	14,000	75	
Milwaukee & Galena Line	80 00	3,000	18,000	21,000	75	
Iowa Southwestern Railway.						\$50 per month.
Belle Plains to Muchakinock		500	3,000	3,500	40	\$50 per month.
Sheboygan to Princeton						56 cents per cwt. on all freight.
Sycamore to Cortland		 				10% cents per cwt. on all freight.
North Illinois Railway		·				50 cents per cwt. on all freight.
United States Express Company.					<b>f</b> 40	On local business be- tween Chicago and
Chicago to Milwaukee	66 66	17,000	102,000	- 119,000	80	Milwaukee and intermediate stations. On bu-iness from and to points on M., L. S. & W. Railway.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

The entire length of road is afforded telegraph facilities by the lines of the Western Union Telegraph Company, in which this company owns certain wires or rights to their use.

#### TRANSPORTATION COMPANIES.

### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York, N. Y., \$2,492.58.

Pullman Palace Car Co., Chicago, Ill., 7.80.

### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

None.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

L

May 2. W. J. Brockington, brakeman, Iron Mountain, coupling; want of caution.

May 3. Thos. O'Neill, switchman, Escanaba, uncoupling; want of caution.

May 26. Jacob Jockey, laborer, Negaunee, stealing a ride; carelessness.

June 10. Allen Keppin, brakeman, Faunus, fell off train; want of caution.

June 17. C. Anderson, Negaunee, drunk on track; carelessness. July 12. G. L. Reis, Iron River, crossing track, want of caution.

July 30. C. Wilson, laborer, Ingalls, unknown, found on track; want of caution.

August 11. D. Desbin, Paint River, bursting water tank; accidental.

August 11. E. Ducker, laborer, Paint River, bursting of water tank, accidental.

August 11. Gus. Larson, laborer, Paint River, bursting of water tank; accidental.

August 11. Jas. Mitchell, laborer, Paint River, bursting of water tank; accidental.

August 11. Geo. Stock, laborer, Paint River, bursting of water tank; accidental.

August 11. W. Johnson, laborer, Paint River, bursting of water tank; accidental.

August 17. E. Lindquist, Quinnesec, asleep on track; carelessness.

September 27. Louis Ponto, brakeman. Spread Eagle, fell off train; want of caution.

September 29. L. Johnson, brakeman, Delanghery, fell off train; want of caution.

#### INJURED.

January 3. D. Brunette, Daggett, driving across track; want of caution.

January 3. H. A. Peterson, tie inspector, Indian Town, fell off hand car; want of caution.

February 2. John Swanson, laborer, Wallace, drunk, stepped off train; carelessness.

February 2. Hugh Watson, Menominee, getting on train; carelessness.

February 3. J. McDonald, laborer, Delanghery, walking on track; carelessness.

February 26. John Gaffney, switchman, Escanaba, coupling; want of caution.

February 28. James Wood, brakeman, Wallace, coupling; want of caution.

March 5. Miss Donnelly, Powers, stood too close to track; want of caution.

March 8. John Youngman, brakeman, Mastodon, coupling; want of caution.

March 12. Harry Conway, Powers, getting on car; carelessness.

April 2. A. Pepper, brakeman, Escanaba, jumped off car; want of caution.

April 8. J. Farnsworth, conductor, Bagley, getting on car ladder, slipped; want of caution.

May 2. Ed. Smith, switchman, Vulcan, coupling; want of caution.

May 2. P. L. Williams, switchman, Wacedah, walking over bridge and slipped; want of caution.

May 3. John Jacobson, laborer, Metropolitan, getting on car; want of caution.

May 4. Jas. Johnson, section foreman, Stephenson, hand car jumped track; accidental.

May 5. Jas. Lamb, switchman, Escanaba, coupling; want of caution.

June 2. H. Powers, switchman, Escanaba, coupling; want of caution.

June 3. Frank Kane, brakeman, Houles, knocked off car by water tank spout; want of caution.

June 9. E. Hossinger, switchman, Ishpeming, lost balance, jumped from train; want of caution.

June 28. H. Tender, brakeman, Crystal Falls, coupling; want of caution.

July 2. Andrew Aleson, laborer, Escanaba, struck by ore spout; want of caution.

July 12. K. Schlicht, Iron river, thrown off car by shock; carelessness.

July 12. Gus Anderson, section foreman, Wacedah, hit by a rock; accidental.

July 18. Tom Winters, Iron Mountain, lying on track drunk; carelessness.

July 19. G. W. Porter, brakeman, Paint River, coupling; want of caution.

July 20. Nels Rouse, laborer, Escanaba, getting on car; want of caution.

July 20. H. Group, laborer, Escanaba, hand on rail; want of caution.

July 21. F. Grumska, switchman, Norway, coupling; want of caution.

August 3. G. Wagner, brakeman, Iron River, coupling; want of caution.

August 5. L. Heminger, carpenter, Escanaba, plank fell on him; wantof caution.

August 11. John McKenna, laborer, Paint River, bursting of water tank; accidental.

August 11. Chas. Peterson, laborer, Paint River, bursting of water tank; accidental.

August 11. Thos. Sheridan, laborer, Paint River, bursting of water tank; accidental.

August 11. Jas. Brown, laborer, Paint River, bursting of water tank; accidental.

August 11. Harry Jones, laborer, Paint River, bursting of water tank; accidental.

August 11. James Erickson, laborer, Paint River, bursting of water tank; accidental.

August 11. W. McCarthy, laborer, Paint River, bursting of water tank; accidental.

August 18. P. Rodgers, laborer, Narenta, caving of gravel banks; want of caution.

August 19. Thos. Nelson, car repairer, Youngstown, knocked off car by trestle; want of caution.

August 20. W. R. Vaughan, brakemar, Escanaba, coupling cars; want of caution.

August 21. Andrew Bake, laborer, Escanaba, finger caught in cog wheel; want of caution.

August 27. Henry Weber, Menominee, getting on train; want of caution.

August 28. A. Anderson, car repairer, Escanaba, repairing cars; want of caution.

August 31. H. Ward, brakeman, Stambaugh, uncoupling cars; want of caution.

September 3. J. Cronan, brakeman, Cedar Siding, fell off car; want of caution.

September 6. E. Hosseman, switchman, Deer Lake. coupling; want of caution.

September 21. M. Sheahan, brakeman, Nadeau, coupling; want of caution.

September 21. Mike White, brakeman, Tamarac Siding, derailment; accidental.

September 24. E. Shearns. brakeman, Cedar, collision.

September 28. Joe Leclair, brakeman, Watersmeet, coupling; want of caution.

October 10. H. Kline, laborer, spread Eagle, sitting on track; carelessness.

October 14. Dell Hurd, brakeman, Crystal Falls, getting on moving train; want of caution.

October 16. W. Thompson, brakeman, Daggett, getting off moving train; want of caution.

November 9. Chas. Brandette, brakeman, Antoine, coupling; want of caution.

November 10. Theo. Dox, brakeman, Escanaba, coupling; want of caution.

November 10. E. Golden, brakeman, Nadeau, coupling; want of caution.

December 29. Frank Riley, switchman, Escanaba, knocked off car ladder; want of caution.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions					1			
Coupling cars		2			. 18			
Derailments					2			
Falling from trains		8			8	 		
Frogs								
Getting on and off trains					6			
Highway crossings			1			:		
Miscellaneous		7	1		16			
Overhead or side obstructions					5			
Trespassers on trains						,		
Trespassers on tracks			2	<i> </i>		:		
Total		12	4		51			

Number of persons killed during the year,	-	-	-	-	16
Number of persons injured during the year,	-	-	-		58
Number of casualties purely accidental,	_	_	-	-	16
Number resulting from lack of caution, careless	ness,	or m	scond	uct,	58
Persons killed or injured while intoxicated,	-	-	_	_	4
Trespassers and tramps killed or injured,	_	_	-	_	8
Suicides,	-	_	-	-	_

# CLASSIFICATION OF EMPLOYES.

## KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	4	19	28
Conductors		1	1
Engineers			
Firemen		 	
Laborers	7	16	28
Shopmen			
Yardmen	1	9	10
Not classified above	 	6	•
Total	13	51	60

STATE OF ILLINOIS, SS. COUNTY OF COOK.

Marvin Hughitt, President, and J. B. Redfield, Auditor, of the Chicago & Northwestern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

MARVIN HUGHITT, J. B. REDFIELD.

Subscribed and sworn to before me this 12th day of March, A. D. 1888.

[L. S.]

J. F. CLEVELAND.

Notary Public.

#### ANNUAL REPORT

#### OF THE

# MASON & OCEANA RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HORACE BUTTERS, Ludington, Mich. Vice President, RICHARD G. PETERS, Manistee, Mich. Secretary and Treasurer. M. F. BUTTERS, Ludington, Mich.

#### DIRECTORS.

R. G. Peters, Manistee, Mich.

Horace Butters, Ludington, Mich.

M. F. Butters, Ludington, Mich.

Robert Arnott, Ludington, Mich.

Pat. O'Connor, Ludington, Mich.

Terms expire January 9, 1889.

### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—August 9, 1886.	
Number of stockholders at date of last election,	7
Number of stockholders in Michigan at same date,	7
Amount of full paid stock held in Michigan at same date,	\$150,000
Date of annual meeting of stockholders,—Second Monday in January.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Ludington, Michigan.	

## GENERAL EXHIBIT.

<b></b>						Dm	RIT.	CREI	
Total income, _ Total expenses, _		-	-	-	-	\$21,019	94	\$28,613	21
Net income,	-	-	-	-	-		٠.	<b>\$</b> 7,593	27
Interest on unfunde	d deb	t,	-	-	-	1,562	19		
Balance for the	year,	-	-	-	-		-	6,031	08
Balance forward to	next y	ear,	-	-	-	<b>\$</b> 6,031	08		
						\$6,031	08	\$6,031	08
Amount authorized Par value of shares No. of shares issued	by chi	arter -	or art	icles	of auso	STOCK.	-	<b>\$</b> 150,900	00
No. of shares issued Amount paid in on	comm	on,	-	-	-	<b>\$150,000</b>	00		
Total amount p	paid in	, as I	er bo	oks of	the (	Company,	_	150,000	00
Paid in per mile of 21.28 miles,	road o	- -	d b <b>y</b> (	Jompa -	any,	<b>\$7,</b> 048	86		
	GEN	ERA	L BAI	LANC	e she	ET,—Dr.	•		
Construction account		-	-	-	-	\$136,554 32,664			
Other investments (	specif	ying	same)	:					
Fencing, _ Real estate, _	-	-	-	-	-	2,185			
Right of way acco	-	-	-	-	-	741 5;871			
lugue of way acce	Juno,	•	-	•	-			<b>\$178,018</b>	21
Cash items:	-	-	-	-	•		-	5,493	32
Other assets: Materials and su	pplies,	_	_	-	-	<b>\$</b> 3, <b>4</b> 01	91		
Sinking funds,	_	_	_			537	76	•	
Debit balance fro	m com	panio	es and	indiv	riduals	, 317	70	4,257	37
Total,			•					\$187,768	00

GENERAL	BALANCE	SHEET	_CR
	DALLANCE	CHUDI.	<b>—</b> Ов.

Capital stock,	-	-	-	_	-	<b>\$150,000 00</b>
Unfunded debt: Vouchers and accounts,	_	_	•			31,737 82
Profit or loss, or income accounts,	-	-	-	-	-	6,031 08
Total,	-	_	_	-		\$187,768 90

#### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

None.

#### UNFUNDED DEBT.

Miscellaneous,	-	-	-	٠,	-	-	-	-	-	<b>\$</b> 31,737	82
Total,	-	-	-	-	-	-	-	-	•	\$31,737	82
			Е	ECAPI	TULA	TION.					
Total unfunded	l debt	•	-	-	-	-	-	-	•	\$31,737	82
Total debt	liabil	ities,	-	-	-	-	-	-	-	\$31,737	82
Amount of deb					f roa	d,	-	-	-	1,491	
Total amount of Stock and debt					-	-	-	-	-	\$181,737 8,540	
Soon and door	Por I			~,	•	-	•	•	-	3,010	~0

### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction as Average cost per mile of road		sidings)	-	\$169,219 55	5
21.28 miles, Proportion of cost for Michigan,	` -	 -	•	7,952 04 169,219 55	

### CHARGES AND CREDITS DURING THE YEAR.

For new construction, For new equipment, including machinery and tools,			\$23,200 90 6,944 00
Total charges,	-	• -	<b>\$30,144</b> 90
Not dehit to property account during the year			20 144 90

## ANALYSIS OF EARNINGS AND EXPENSES.

#### EARNINGS.

From passengers, From freight,	-	-		-	-	-	-	-	\$329 28,283	
Total earnings,	-	-	-	-	-	-	-	-	\$28,613	21
Earnings per mile of Earnings per train n							- evenu	e,—	1,344	60
13,200 miles, .	-	-	-	_	•	-	-	-	2	16
Receipts other than	for t	ransp	ortatio	n,	_	_	_	-	No	ne.
Total earnings, _		-	-		_	_	-		28,613	21
Total taxable earnin	gs in	Mic	higan.	_		-	_	_	28,613	
FD . 1 !	_		-		-	_	-	-	28,613	
Proportion for Mich			-	-	-	-	-	-	28,613	

#### EXPENSES.

		Per Cent.	Total.
Class 1.	Maintenance of way and buildings,	6.15	\$1,292 50
Class 2.	Maintenance of motive power and cars,	19.90	4,184 81
Class 3.	Conducting transportation,	65.57	13,781 86
Class 4.	General expenses and taxes,	8.38	1,760 77
Tota	al expenses and taxes,	100.00	\$21,019 94
	g expenses per mile of road operated,—		
	niles,	987 77	
	g expenses and taxes per train mile run		
	ins earning revenue,—13,200 miles,	1 59	
	on of operating expenses and taxes for		
Michig		21,019 94	
Per cent	of expenses from earnings, 73.460		
Net earn	ings per mile of road,	356 83	_
Net earn	ings per train mile run,	0 57.50	0

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 6, 1887.

### MAIN LINE.

						Miles, 100ths, Miles, 100ths,			
In Michigan: Buttersville to Crystal Valley,		-	-	-	-	21	28		
Total length completed,	-	-	•	-	-	•	-	21 28	

Total length of road belonging to this Company, Aggregate length of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks belonging to this Company, computed as single track, Total miles operated by the Company, Gauge of track, 3 feet.  Number of Bridges and Trestles in Michigan	
Wooden bridges, number of, 3; aggregate length, feet,	450
Total, 3;	<b>45</b> 0
Crossings—Railroad and Highway.	
What railroads cross your road at grade in this State, an None.  What railroads cross your road either over or under your and where?  None.	•
Number of crossings of highways at grade in this State,	. 9
Stations.	
Number of stations on whole line,	- 3 - 3
Employés.	
Number of persons regularly employed on all roads oper by Company, including officials,	rated 31 . 31
Fencing in Michigan.	
How many miles of fencing have you?  Give the number of miles required to complete fence sides of your track, in Michigan, and the counties in w needed.	both hich
Mason and Oceana,	_ 10
Road Bed and Track.	
Nomber of track sections,	- 4 - 5 - 5 - None.

### ROLLING STOCK.

			ROLL	ing b	LOCK.						
<b></b>							Nu	mber.	Pr Estima	esent ted Va	lue.
Number of l tender, .	locomotiv	708, & -	li classe 	98, exe -	lusive -	of -		4	<b>\$</b> 14	<b>1,0</b> 00	00
Total,	-	-		-	-	-	•	4	\$1	4,000	00
Number of p	assenger	cars.		_	_	_		1		700	00
Number of b				_	_	_		1		200	00
Number of p				_	_	_		$2\overline{4}$		3,000	
Number of le	ogging c	ars.		_	_	_		80		3,044	
Other cars as		,	_	_	- ·	_			_	-,	
Camp cars,		-			_	_		2		600	00
Snow plow		-	_	_	_	_		1		500	00
Lorries.		_		_	-			2			00
Hand cars,	-	_		-	_	_		5		167	00
,											
Total,	-	-		-	-	-		120	<b>\$</b> 3	2,251	70
Number of lo One with s Number of brakes, _ What kind of Ratchet ha	team bra freight f train b	ke. cars - ake i	equippe	ed wit	h pov	ver -	N	one.			
		M	ILEAGE	. TRAI	FFIC. I	etc.					
				in Mile							
Miles run by	freight t	rains	during	the yea	ir,	_	_	_		14,6	372
•	•		•	•							
Total mi	leage of	trains	earning	g reven	ue,	-	-	•		14,6	572
			Passe	enger I	raffic.					•	
						ımbers Juantiti		M	lies.	Rat	٥,
Total nu	mber of	passer	agers car	rried,	-		802				
Total passens	ger milea	ge, or	passen	gers ca	rried o	ne m	ile,	12	030,		
Average dista						-	-		.15		
Average amo	unt recei	ved f	rom eac	h pass	nger,	-	_	•	-		40
Average rate	of fare p	er mi	le for all	l passe	ngers,	-	-	-	-		03
			Fre	ight Tre	ıffic.						
<b>_</b> . •		_									
Total tons of							437				
Total freight	mileage,	or to	ns carri	ed one	mile,	-	•	808	5,992		
Average ton	naul for a	all fre	ight,	-	-	-	-		16		

84 <u>M</u> T		[Dec. 81.								
Average amount received Average rate per ton per	for each ton mile, received	haul, for all f	reight,	-		55 04				
Tonnage of Articles Transported.—Entire Road.										
Lumber and forest produ Grain, flour, provisions, included above, - Total tons carried,	ots, - other agricultu	ıral prod 	lucts n	- - - -	Tons. 50,146  291  50,437	Per Cent 99.43 57 100.00				
	Telepi	hone.								
Number of miles of telep Belongs to Mason & O	ohone on your : ceana Railroad	road, án l Co.,—	d to w	hom -	does it be	long? 17				
REPORT OF ACCIDE	NTS FOR MIC	HIGAN	DURIN	G TI	HE YEAR	1887.				
	W77 T	77.75								

#### KILLED.

August 19. James H. Carr, brakeman, Mason county, car fell on him; his fault.

### TABULAR STATEMENT OF ACCIDENTS.

		Killed.		Injured.					
Causes of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.			
Collisions									
Coupling cars				<b></b>					
Derailments									
Falling from trains				- <b></b>		ļ			
Frogs									
Getting on and off trains									
Highway crossings									
Miscellaneous		1							
Overhead obstructions									
Trespassers on trains									
Trespassers on tracks									
		<u> </u>		İ					
Total		1							

#### SUMMARY OF ACCIDENTS.

Number of persons killed during the year,		_	_	_	1
Number of persons injured during the year,		٠_		-	
Number of casualties purely accidental,	_	-	_	-	
Number resulting from lack of caution or car	eless	ness,	-	-	1
Persona killed or injured while intoxicated,	-	-	_	-	
Trespassers and tramps killed or injured,	-	_	_		
Suicides,	_	-	-	_	

STATE OF MICHIGAN,. SS. COUNTY OF MASON.

M. F. Butters, Secretary, of the Mason & Oceana Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF B. B.] Signed, M. F. BUTTERS,

recretary.

Subscribed and sworn to before me this 16th day of March, A. D. 1888.

ROBERT ARNOTT,

Notany Bublis in and for Mason Co. Wish

Notary Public in and for Mason Co., Mich.

#### ANNUAL REPORT

#### OF THE

## MICHIGAN CENTRAL RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed February 19, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich.

Vice President and Secretary, E. D. WORCESTER, New York City.

Auditor, D. A. WATERMAN, Detroit, Mich.

Treasurer, HENRY PRATT, New York City.

General Manager, H. B. LEDYARD, Detroit, Mich.

General Superintendent, E. C. BROWN, Detroit, Mich.

Assistant Gen. Superintendent, R. MILLER, Detroit, Mich.

Division Superintendents:

R. H. L'HOMMEDIEU, Chicago, Ill.

C. B. BUSH, Jackson, Mich.

W. A. VAUGHAN, Bay City, Mich.

D. S. SUTHERLAND, Detroit, Mich.

J. B. MORFORD, St. Thomas, Ont.

Chief Engineer, J. D. HAWKS, Detroit, Mich.

Superintendent of Telegraph, E. E. TORREY, Detroit, Mich.

Cashier, J. E. GRIFFITHS, Detroit, Mich.

General Passenger Agent, O. W. RUGGLES, Chicago, Ill.

General Freight Agent, A. MACKAY, Detroit, Mich.

General Counsel, ASHLEY POND, Detroit, Mich.

General Attorney, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York city,

W. K, VANDERBILT, New York city.

H. B. LEDYARD, Detroit, Mich.

E. D. WORCESTER, New York city. S. F. BARGER, New York city.

C. M. DEPEW, New York city.

ASHLEY POND, Detroit, Mich.

W. L. Scott, Erie, Pa.

J. V. FARWELL, Chicago, Ill.

Term expires May 3, 1888.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

1,484
14
\$102,800 00
day in May.

### GENERAL EXHIBIT.

							1	DEBIT		CREDIT	
Total income,	•	•	-	-	-	-	•	•	-	<b>\$14,164,490</b>	20
Total expenses,	inclu	ıding	taxes,	,	-	-	\$9,875	,246	50		
Net incom	е,	•	-	-		-	-	-	-	\$4,289,243	70
Interest on fun	ded d	lebt:									
Main line,	-	-		\$660	,000	00					
Leased lines,	•	-	-	420	,800	00					
							\$1,080	,800	00		
Canada Souther								-			
tion of net ea	rning	8.8 8	per ag	reeme	nt,	-	540	,870	05		
Rentals of lease	ed lin	Θ <b>3</b> ,		-	-	-	1,455	,129	53		
						•				<b>\$3,076,799</b>	58
Balance applica					-	-	•	-	-	1,212,444	12
Dividends decla	red (	4 per	cent)	•	•	-	-	•	-	749,528	16
Balance for	the	year,	-	-	-	-	-		-	\$462,915	96
Balance (profit	and l	oss) la	ast yes	ır,	-	-	-	-	-	6,501,467	88

Items not included in above, as follows: Premium paid on J., L. & S. bonds, etc.,	<b>\$33,3</b> 06 99	
Income from sundry securities, etc., Balance forward to next year,	6,984 228 94	<b>\$</b> 53,152 09
	<b>\$</b> 7,017,535 93	<b>\$</b> 7,017,535 93

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charte	r or artic	cles of a	association,	- Not limited.
Par value of shares,		_		
No. of shares issued,		-	_ 187,382 4-1	
Amount paid in on common,	-	-	<b>\$</b> 18,738,20 <b>4</b>	00
Total amount paid in, as	per book	s of th	e Company,	\$18,738,204 00
Paid in per mile of road ow pany,—miles, 270.07,	rned by -	Com-	<b>\$</b> 69,382	77

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

		1	İ
r cent	May 1, 1902	New York city	\$8,000,000 00
r cent	May 1, 1902	New York city	2,000,000 0
r cent	Jan. 1, 1890	New York city	1,900,000 0
r cent	Sep. 1, 1909	New York city	1,500,000 0
r cent	M'ch 1, 1931	New Yolk city	8,576,000 00
	r cent r cent r cent	r cent May 1, 1902 r cent Jan. 1, 1890 r cent Sep. 1, 1909	or cent May 1, 1902 New York city or cent May 1, 1902 New York city or cent Jan. 1, 1890 New York city or cent Sep. 1, 1909 New York city or cent M'chl, 1931 New Yolk city

#### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
		Ì
		1
For miscellaneous		\$422,724 74
For current balances		1,457,676 92

#### RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-		-		-	-	<b>\$16,976,000</b> 1,880,401	
Total debt liabilities.	-	•	-	-				\$18,856,401	66
Amount of debt liabilities	per r	nile o	f road	,—6	21.37 r	niles,	, -	30,346	50
Total amount of stock and Stock and debt per mile of	debi fread	t, l,	-	-	-	-	-	<b>37,594,605</b> 60,502	66 76
		Mai	n Line	<b>.</b>					
Total funded debt,	_	-	-	_	-	-	_	<b>\$</b> 10,000,00	00
Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	1,880,401	66
Total debt liabilities,	- ,	-	-	-	-	-	-	\$11,880,401	66
Amount of debt liabilities	per r	nile o	f road	d (27	0.07 n	iles)	, -	43,990	08
Total amount of stock and Stock and debt per mile of	d deb	t, l,	-	-	-	-	-	\$30,618,605 113,372	66 8 <b>5</b>
GENE	ERAL	BAL	NCE	SHE	e <b>t,</b> —D	R.			
Construction account, \ In	clude	s amo	nntex	pend	ed on a	ccou	nt		
Equipment account. \ \ o	f cons	struct	ion of	leas	ed line	8,	*	<b>\$</b> 40,997,061	22
Other investments (specify Railroad stocks, bonds,	otc.,	а <b>т</b> е)	•	_			_	594,546	25
Cash items:	•							•	
Cash,	-	-	-	-	<b>\$1,092</b>	,405	92		
Cash,	- -	-	-	-	20 579	,000	00		
Due from agents,	-	- '	-	•		,000		1,691,492	19
Other assets:  Materials and supplies,		<b>.</b>		. <u>-</u>	<b>\$</b> 655	,500	16		
Debit balances from co	•		nd ind	li-	210	094	70		
viduals	-	-	-	•	640	,&0 <b>4</b> 	-	1,295,734	94
Total,	-	-	-	-	-	-	-	<b>\$</b> 44,578,834	60

<sup>\*</sup>Included in this amount is \$1,500,000.00 representing Michigan Central bonds secured by mort-gage on the Grand River Valley Railroad, and which is also included in the estimated amount expended for construction, as shown in the report of the Grand River Valley Railroad Company.

Capital stock.

. \$18,738,204 00

#### GENERAL BALANCE SHEET,-CR.

Capital Blook,	-	•	-	-	-	-	-	•	Φ10, 100, ×0±	v
Funded debt: Consolidated me Michigan Air L Grand River Vs Detroit & Bay	ine bo lley b	nds, onds,	-	- ·	- - -	\$10,000, 1,900 1,500 3,576	000 000	00 00		00
Unfunded debt: Interest unpaid, Dividends unpaid Vouchers and acc					-		,835 889 ,676	74		
Profit and loss or in	come	accou	nts,	-	-	-	-	-	1,880.401 6,984,228	
Total, .	•	-	•	-	-	-	-	-	<b>*44</b> ,578,834	60
						UIPMEN				
Total Cost for Constru	uction o	ind E	quip	ment of 1	Road	d and Bro	inche	s B	uilt by Compa	ny.
	Pu	rchas	ed b	y Presen	t C	ompany.				
When purchased,— Original cost to pre Amount expended s Amount expended s Total cost to date o Proportion of cost f	sent C ince p ince p f repo	ompa urcha urcha rt,—	iny, 180, 1 180, 8 270.	of road account account 07 miles	an of of	d equipn construc	ent, tion,	-	\$2,000,000 } 28,911,401 30,911,401 25,294,997	44 44

### Amounts Expended Account Leased and Proprietary Lines.

The season of the season of				<b>A</b> 0 0	00.000	^~
Detroit & Bay City Railroad,	-	-	-		26,082	
Saginaw Bay & Northwestern Railroad,	-	-	_		76,549	
Michigan Air Line Railroad,	-	-	-	_ 2,9	49.977	15
Grand River Valley Railroad,	_	_	-	_ 2,3	85,488	28
Jackson, Lansing & Saginaw Railroad,	_	-	_	_ 8	32,028	09
Kalamazoo & South Haven Railroad,	-		-	_ 1	15,535	24
Total property account,	-	-	-	_ \$40,9	97,061	22

<sup>\*</sup>These bonds are issued by this Company, but are secured by mortgage on the several proper ties named, not by the property of this Company.

<sup>†</sup> These bonds are issued by this Company, but are secured by a mortgage on the property of the Grand River Valley Railroad Company, as shown by that Company's report.

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### Main Line.

Land,	-	-	-	-	-	\$27,667 33
Leased or P	ropri	etary i	Roads.			
Michigan Air Line R. R.,	-	-	_	-	-	4,100 00
Jackson, Lansing & Saginaw R. R.,	-	_	-	_	_	642 00
Detroit & Bay City R R., .	-	-	_	-	_	1,844 00
Saginaw Bay & Northwestern R. R.,	-	-	-	-	-	265 00
Total charges to property accou	nt as	above	, _	-	-	<b>\$</b> 34,518 33
Property sold and credited,	_	_	_		-	None.
Net addition to property account,	-	_	_	-	-	34,518 33

ANALYSIS OF EABNINGS.
PASSENGER BARNINGS.

Roads.	Local Fares,	Through Fares.	Total Passenger Fares.	Express and Baggage.	Mails.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$1,361,408 57	\$481,229 82	\$1,842,637 89	28 899'382\$	\$102,872 64	\$2,178,174 45	\$1,694,568 33		\$7,667 78
Leased or Proprietary Roads.									
Michigan Air Line Railroad	61,197 99	87 20	61,235 19	8,479 45	8,646 84	73,361 48	66,50: 08		637 04
Joliet & Northern Indiana Railroad	12,306 69	95 45	12,402 14		1,632 48	14,034 62			812 10
Grand River Valley Railroad	138,323 07	10,782 50	149,105-57	8,914 45	11,906 32	164,925 34	164,925 34		1,968 31
Jackson, Lansing & Saginaw Railroad	491,273 39	8,250 25	489,523 61	12,178 13	28,589 52	540,291 29	540,291 29		1,838 75
Kalomazoo & South Haven Rallroad	25,772 99	07 78	25,857 39	1,304 80	1,821 12	28,963 31	28,968 31		783 75
Detroit & Bay City Railroad	215,517 91	8,460 95	223,978 56	11,001 54	15,204 36	250,184 76	20,184 76		1,642 17
Toledo, Canada Southern & Detroit R'y	140,876 29	13,189 70	154,065 99	8,175 95	10,428 96	172,670 90	146,091 72		8,090 58
Michigan Midland & Canada Railway	4,467 66		4,467 86	103 47	106 08	5,837 21	5,8 17 21		368 57
Canada Southern Bridge Co	579 65		679 65		100 92	680 57	680 57		186 94
Canada Southern Rallway (in Canada)	694,717 75	511,064 84	1,205,782 59	110,784 84	88,965 86	1,350,522 79			8,726 19
Saginaw Bay & Northwestern R. R	4,600 17		4,600 17			4,600 17	4.600 17		63 79
Total passenger earnings	<b>\$3,151,042 13</b>	\$1,033,194 61	84,184,236 74	\$368,606 05	\$215,924 10	\$215,924 10 \$4,768,766 89	\$2,906,163 76	18 18	\$8,112 06

ANALYSIS OF EARNINGS.—Continued. FREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches  Leased or Proprietary Roads.	\$1,632,173 18	\$1,821,584.21	\$8,648,757 83	<b>83.643</b> ,757 88	\$2,884,780 87		\$12,896 97
Michigan Air Line Railroad	69,161 48	7,784 61	78,946 (9	76,946 09	72,896 25		668 16
Joliet & Northern Indiana Railroad	95,6±7 36	49,613 80	146,241 15	145,841 15			8,227 58
Grand River Valley Railroad	104,985 02	47,212 89	159,197 41	162,197 41	152,197 41		1,816 41
Jackson, Lansing & Saginaw Raliroad	879,027 19	1,241 93	880,269 11	11 602,088	880,269 11		3,982 95
Kalamazoo & South Haven Railroad	24,576 28	546 73	28,123 00	28,123 00	28,123 00		838 Q8
Detroit & Bay City Railroad	888,133 88	84,421 12	467,554 95	467,554 95	467,554 36		8,068 96
Toledo, Canada Southern & Detroit Railway	286,094 15	88,938 96	875,082 51	875,082 51	817,804 11		6,712 59
Michigan, Midland & Canada Rallway	1,170 27		1,170 27	1,170 27	1,170 27		5
Canada Southern Bridge Co	784 54		784 54	784 54	784 54		200 69
Canada Southern Rallway (in Canada)	1,528,396 04	1,939,078 26	3,462,474 80	3,462,474 80			9,553 24
Saginaw Bay & Northwestern R. R.	79,486 58		70,496 53	79,486 53	79,486 58		929 45
Total freight earnings	\$5,269,565 80	\$4,040,421 89	\$9,800,987 19	\$9,300,967 19	\$4,831,496 54	\$1 47	\$6,056 69

Total,

Total transportation earnings, Transportation earnings per mile of road, Transportation earnings per train mile, Miscellaneous receipts from operating accounter than for transportation as follows: From other sources,	- - n <b>t</b> ,	\$9,168 1	82 41		08
Total,	-	\$70,736	12	_	
Total earnings from operation of road,	-		-	<b>\$14,164,490</b>	20
Total earnings per mile of road,	_	9,214	83		
Total earnings per train mile,	_		41		
Proportion of taxable earnings for Michiga Total taxable earnings per mile of road		2,897,007	23		
Michigan,	-	2,753	88	•	
Total income from all sources,	-		-	<b>\$14,164,490</b>	20
Proportion of income for Michigan,	-		•	7,792,611	20
MISCELLANEOUS E	ARNI	NG8.			
				Proportion for Michigan.	or
Main line,	_	\$58,576	77	\$47,932	69
Michigan Air Line Railroad,	-	87	OO	82	
Joliet & Northern Indiana Railroad,	-	393			
Grand River Valley Railroad,	-	1,219		1,219	
Jackson, Lansing & Saginaw Railroad,	-	5,522		5,522	
Detroit & Bay City railroad,	-	704		704	
Toledo, Canada Southern & Detroit Ry.,	-	209		176	
Canada Southern Bridge Company,	-	313		313	06
Canada Southern Railway,—in Canada,	-	3,710	86		
Total,	-	\$70,736	12	<b>\$</b> 55,950	90
TAXABLE EARNINGS FO	R MI	CHIGAN.			
Michigan Air Line Railroad Company,	-		_	<b>\$</b> 142,480	46
Jackson, Lansing & Saginaw Railroad,	-	•	_	1,426,082	
Kalamazoo & South Haven Railroad,	_		-	54,106	
Detroit & Bay City Railroad,	-	_	-	718.443	
Toledo, Canada Southern & Detroit Railwa	y,		-	463,573	35
Canada Southern Bridge Company,	-		-	1.728	
Michigan, Midland & Canada Railway,	-		_	6,507	48
Saginaw Bay & Northwestern Railroad,	-		-	84,086	

. \$2,897,078 74

### ANALYSIS OF EXPENSES.

### CLASS 1.—Maintenance of Way and Buildings.

Repairs of roadway and t	rack.	_	_		_		_	<b>\$1,230,334</b>	04
	-			_				176,770	
7) ) (4)				-	•		-	319,137	
Panaira of huidana includ	1: a	.1-0-4	ta and	-	~ ~	- A	-		
Desire of foreigns, include	nng ci	11461	as as it u	Carrie	gua	rus,	-	190,100	0 <del>1</del>
Repairs of fences, road or	cossing	s, an	a sign	18.	-	-	-	111,696	9A
Repairs of buildings, -	-	-	-	-	-	-	-	196,108 111,696 318,696	36
Total,	-	-	-	-	-	-	-	<b>\$</b> 3,352,7 <b>4</b> 3	19
CLASS 2.—	Maint	mann	e of M	otine P	hmer	and O	are.		
Olimbia II.	11200000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i>O O</i> ,	00000 1	020.	<b>u</b>	<b></b>		
Repairs of ferry boats,	_	_	_	_	_	_	_	\$13,232	40
Repairs of locomotives	_	_	_	_	_	_	_	476,344	
Repairs of locomotives, Repairs of passenger cars	-	-	•	-	- -	-	•	233,929	
Repairs of freight cars,	, -	-	•	-	-:	-	-		
Mepairs of freight cars,	-	-	-	•	-	-	-	726,438	11
Total,	_	_		_	_	-	-	\$1,449,944	83
•								• •	
CLAS	ss 8.—(	Condi	ucting	Transp	orta	tion.			
			•	-					
Fuel for locomotives,	-		_	-		-		\$984,024	09
Water supply, 2 -	-	-	-	-	_			51,584	
Oil and waste,	-		_	_	_	_	_	57,871	
Locomotive service.	_	•	_		_		_	757,607	
Passanger train service	-	•	-	-	•	-	•	168,151	
Locomotive service, . Passenger train service, Passenger train supplies, Mileage of passenger cars	-	•	•	-	•	-	-		
Mileums of passenger com		-	-	-	-	-	-	35,561 40,546	10
Print their series	3, -	-	-	-	-	-	-		
Freight train service, Freight train supplies,	-	-	-	-	-	-	-	418,389	
		-	-	-	-	-	•	31,299	
Mileage of freight cars, Telegraph expenses (main		-				-	-	451,071	
Telegraph expenses (main	ntenan	ce ar	id ope	rating	),	-	-	222,656	15
Damage and loss of freig	ht and	l bag	gage,	-	-	-	-	30,522	50
Damages to property and	cattle	, _	•	-	-	-	_	15,687	44
Damages to property and Personal injuries, Agents and station service Station supplies	-	_	-	-	-	-		37,984	06
Agents and station service	e.	_	-	-	-	_	_		
Station supplies,	•	_	_	_	_		_	67,720	
Station supplies, Detroit river crossing,	_	_	_	_	_	-	_	F0 000	
,	_	-	-	-	_	_	_		
Total,	<u>-</u> .	-	-	-	-	-	-	<b>\$4,</b> 607,099	<b>32</b>
	(7- , 00		~	.) Flores					
	CLASS	4,-	Genera	l Expe	nses.				
Salaries of the general of	Hoore 4	of the	Com	na				<b>\$70,000</b>	ΛΛ
Salaries of clerks in gene	ral AF	ivoa Yr mil	, сош	Pauj,	-	-	•	172,953	
Tow ormanaa				-	-	-	-		
Law expenses,	-	-	-	-	-	-	-	40,889	
Insurance,	-	•		-	-	-	-	15,101	
Insurance, Stationery and printing, Outside agencies and adv	<b>.</b>	•	-	-	-	-	-	71,621	
Untside agencies and adv	vertisir	ıg,	-	-	-	-	-	234,373	31

96	MICH	GAN RA	AILRO.	AD RE	TURI	18.		[Dec.	81.
Contingencies,	-			_	-	_	_	<b>\$72,686</b>	02
Taxes,	-		-	-	-	-	-	270,307	97
Total, -	Ĭ		-	•	-	-	-	\$947,932	90
	RECA	PITULA	rion d	F EXP	ENSE	8.			
						Per C	ent o	t	
Maintenance of wa	v and br	ildings.		_	_		.82		19
International bridge		-	_	_	_		.60	59,161	
Maintenance of mo		er and c	ars.	_	_		.68		
Track rentals and			-			04	.65	458,364	
Conducting transp	ortation,		-	-	-	46	.65	4,607,099	32
General expenses, i			-	-	<b>-</b> ·	. 09	. 60	947.932	
Total operating	g expense	es and ta	xes,	_	-	100	.00	\$9,875,246	50
Operating expenses road, - Operating expenses for trains earning Proportion of operation Michigan,—M	and taxes revenue rating ex	s per tra ,—9,983 rpenses :	in <b>m</b> ile 3,320 n	run, niles,		6, <b>424</b> .0,776	99		
	Le	ased or I	Proprie	tary Ro	oade.				
Michigan Air Line	Railroad	d	_	_	\$20	4,375	94		
Grand River Valley			-	-		3,571			
Jackson, Lansing &			ad,	-		1,836			
Kalamazeo & South				_		4,729			
Detroit & Bay City			· .	_		6,155			
Toledo, Canada Soi			-	-		9,119			
Michigan, Midland				_	1	2,087	34		
Canada Southern B			_	-	1	0,136	03		
Saginaw Bay & Nor			oad,	-		4,811			
Total proportion	on of exp	enses fo	or Mic	higan,	-	-	-	<b>\$</b> 5,997,598	43
Percentage of expe	nses to e	arnings	<b>,</b> -	69.	.72				
Net earnings per m	ile of ro	ad, _		-		2,790	41		
Net earnings per tr			-	-	-	•	43		

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit to Chicago, May, 1852.

### MAIN LINE.

T 201 1 1						Miles.	100th	s. Miles, 1	OOths.		
In Michigan: From Detroit to State Lin	.e, _	_	_	_		221	L <b>0</b> 0	)			
In Indiana: From State Line to Hamn						4.9	00				
In Illinois:		-	-	-	-						
From Hammond to Kensi	ngton,	-	-	-	-	_	07				
Total length completed,	-	•	-	-	-	-	-	270	07		
Length of double track on m	ain lin	θ, _	-	-	-	120	00	)			
Total length of road belongi	ing to	this C	ошр	any,	-	-	-	270	07		
Total length of road belon Michigan,	-	_	-		-	2:1	L 00	)			
other tracks not above enu	imerate	d,	_	_	-	154	1 00	)			
Aggregate length of tracks this Company, computed a Gauge of track, 4 feet 8½ inc	s single			onging -	to -	378	5 00	)			
Proprietary or Leased Roads Operated by Company.											
Name, description, and length of each:											
			~					In Mich	igan.		
Chicago & Kensington, joi		th III.	Cen	itral,	-		00				
Michigan Air Line Railroa			-	-	-	115		109	10		
Joliet & Northern Indiana		ad,	-	-	-	45		-00	•		
Grand River Valley Railro			-	-	-	83			79		
Jackson, Lansing & Sagins			-	-	-	295		295			
Kalamazoo & South Haver		oad,	•	-	-		50		50		
Detroit & Bay City Bailros	id, _				-	152		152			
Toledo, Canada Southern			iroa	d, _	-		87	47			
Michigan, Midland & Can		lroad,	-	-	-		68		68		
Canada Southern Bridge C			-	-	-		66		66		
Saginaw Bay & Northwest					-		<b>52</b>	85	52		
Canada Southern Railway	and bra	anches	in (	Janada,	-	362	44				
Total,	-	-	-	-	-	1,267	07	830	97		
Total miles operated by the	Compa	ny,	-	•	-	1,537	14	1,051	97		
Number of .	Bridges	and Tr	estle	s in Mic	higa	n.					
Wooden bridges, number of,	224;	aggreg	ate	length,	fee	t, _		18,8	592 <del>1</del>		
Stone bridges, number of,	4; ε	aggrega	ate :	length,	fee	t, _			181		
Iron bridges, number of,	33;	aggreg	ate l	length,	fee	t, _			399 <del>8</del>		
Combination bridges, No. of,				length,				3,2	2271		
Wooden trestles, number of,				length,				7,7	796 <del>]</del>		
m	0.46										
Total,	342;	-	-	-	-	-		34,4	197		
18 ,											

### Draw Bridges in Michigan.

How many on your line?	9
Where located, when built, and length of draw span:	
St. Charles, over Bad River, rebuilt in 1881, feet,	37 <del>1</del>
Paines, over Tittabawassee river, rebuilt in 1886, feet,	108
South of West Bay City, over Squaconning Creek, rebuilt,	
in 1884, feet,	34
South of Kawkawlin, over Kawkawlin River, rebuilt in	
1880, feet,	51
Bay City, over Saginaw River, rebuilt in 1884, feet,	188
East Saginaw, over Saginaw River, rebuilt in 1886, feet,	190
Gross e Isle, over Detroit River, rebuilt in 1884, feet,	340 <del>1</del>
South of Woodmere, over Rouge River, new in 1887,	160
South Rockwood, over Huron River, rebuilt in 1881,	128
Character of structure:	
Iron wood and stone niers	

Iron, wood and stone piers.

Material of which constructed:

Iron, wood and stone.

Height above water, and depth of water under bridge.

Fifteen to 30 feet.

How swung, by engine or hand power?

Grosse Isle by engine, balance hand. Approaches, straight or curved?

Straight.

Do you require all trains to come to a full stop before crossing draw, and how are they signaled?

Yes. By bridge tender.

### Crosssings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Lake Shore & Michigan Southern Railroad, at Springwells, Albion, Kalamazoo, Jackson, Homer and Eaton Rapids.

Wabash Western Railroad, at Springwells and Delray.

Flint & Pere Marquette Railroad, at Wayne Junction East Saginaw, Otter Lake, Bay City and North Saginaw.

Detroit, Monroe & Toledo Railroad, at Detroit.

Grand Trunk Railroad, at Detroit.

Detroit, Grand Haven & Milwaukee Railroad, at Milwaukee Junction and Owosso.

Pontiac, Oxford & Port Austin Railroad, at Oxford.

Michigan Air Line Railroad, at Rochester & Jackson.

Chicago & Grand Trunk Railroad, at Lapeer, Battle Creek, Charlotte, Lansing and Cassopolis.

Port Huron & Northwestern Railroad, at Vassar and near East Saginaw.

Saginaw, Tuscola & Huron Railroad, at Reese.

Grand Rapids & Indiana Railroad, at Kalamazoo and Wasepi.

Saginaw Bay & Northwestern Railroad, at Pinconning.

Chicago & West Michigan Railroad, at Grand Junction.

Fort Wayne & Jackson Railroad, at Jackson.

Chicago & Canada Southern Railroad, at Slocum Junction.

What railroads and where? Over grade:	cross y	our	road e	oither	over.	or un	ider y	our g	rade in	this State,
Toledo, Ann Chicago & W									nn Art	oor.
Under grade: Cincinnati, V Niles.	<b>V</b> abash	& M	[ic <b>hig</b>	an R	ailros	d, at	Niles	and t	wo mil	es South of
At what crossin Chicago & G Chicago & G Grand Rapid What pattern o Union Swite	rand Trand T	runk runk liana erns	Rail Rail Rail Rail have	way c way c road	rossit rossit crossi	ng, at ng, at ng, a	South Nich	Lan ols.	in opera	ation?
Number of cro	ssings d	of hi	ghwa	ys at	grade	e in tl	his Sta	ate, State	_ .at:	1,031
which there	are gat	es or	flagn	nen,	-	_	-	-	-	65
Number of cro	ssings	at w	nıçn	tnere	are e	Hectri	c or a	utom	atic	Mana
signals, . What pattern o	- natta	- mai	- n ngo	9 -	-	-	-	-	-	None. None.
Number of cros 36; under, 1	ssings o	f hig	gh way	78 OVE	r or u	nder	railros	ov	er,	140116.
Number of hig	hway l	oridg	es, 18	feet	abov	e trac	k,	<b>-</b> _	-	32
Number of hig	hway t	ridg	es les	s thai	n 18 f	eet a	bove t	rack,	-	8
Have safety g										Yes.
Are your frogs Session Laws			- 20118	- 10CK	-	requii -	rea by	Act 1	74, -	Yes.
How are they t										
Wood blocki	ng spik	ted t	o the	ties.		•				
				St	ation	в.				
Number of sta	tions o	n wh	ole li	ne.	_	-	-	_	_	300
Same in Michig					_	_	-	_	-	198
				En	nployé	8.				
Wban of mar		1.	-1						hd	
Number of per by Company	n suos Inclani	gina	officia	ale mbio?	you o	1 9911 1	roaus	opera	ieu	9,099
Same in Michi	ran.	ııııg	Omor	, a10	-	-	-	•	-	5,552
	-	-	-		 	. •	•	•	•	0,002
Classify your e	mployé	8 88	per f	ollow	ing li	st:				Number.
Baggagemen (t	rain!									70
Brakemen,		-	-	•	-	-	-	-	-	567
Conductors,	-	•		-	-	-	-	•	-	306
Engineers,	-	_	-	-	•	•	-	•	-	456
Firemen, -	_	_	_	_	-	_	_	_	_	466
Laborers, .			-	_		•	•		-	2,554
Shopmen, .	-	_	_	_			-	-	_	862
Yardmen,	-		_	_	_	-		•		655
Others, .	-	-	-	-	-	-	-	-	-	3,163
Total,	-	-	-	-	-	-	-	•	-	9,099

### REPAIRS AND RENEWALS.

### Fencing in Michigan.

How many miles of f Give the number of m of your track, in needed:	iles r	equir	ed to co	$\mathbf{mpl}$					1,672.67
Bay county,									6.38
Ogemaw county,	•	-	-	-	-	-	-	•	36.34
Roscommon county,	•	-	•	-	-	-	-	-	29.94
Crawford county.	•	-	-	-	-	•	-	•	56.27
Otamora county.	•	-	-	-	-	-	-	-	
Otsego county, -	-	-	-	-	-	-	-	-	19.18
Cheboygan, -	-	-	-	-	-	-	-	-	77.29
Total miles,	-	-	-	-	-	-	-	-	225.40
		Ro	ad Bed	and	Track	<b>5</b> .			
Number of track sec	tions	in M	ichigan	1_			_		237
Average length of se					-	_	_	_	4.50
Average number of men in each section gang,									
Number of new ties put in whole line during the year,									
Number of new ties	nut i	n tra	ok in M	lichi	ng m	o you	,	-	897,782 558,317
Average number of n	puo i	ioa no	or mile	of w	gan,	-	-	-	530
New rails put in track	k:	_	31 111116	OI I	oau,	•	-	-	
Steel [tons 7,046]	mile	8,	-	-	-	-	-	<b>-</b> .	68.38
Total miles of track	laid v	with:	new rai	ils,	-	-	-	-	68.38
			Bridges	and	Culve	ris.			
Amount of trestle wo	rk re	eplac	ed with	ear	th du	ring	the y	year	
(linear feet),			-	-	-	-	-	-	342
Timber culverts repla			g the y	ear:					
With iron pipe—ni	ımbe	r.	-	-	-	-	-	-	None.
With sewer pipe,-				-	-	-	-	-	None.
With timber,—nun	aber,	-	-	-	-	-	-	-	None.
New bridges built du	ring	the y	ear,—r	uml	oer,	-	-	-	1
Location.			Kind.		м	aterial.		Month built.	Feet in length.
One mile south of Woodmer	 1 T	russ a	nd plate	rir-				<u> </u>	

Location.	Kind.	Material.	Month built.	Feet in length.
One mile south of Woodmere, a over Rouge River	Truss and plate gir- der draw bridge	Iron	Apr. to Dec.	20836
Total				20636

### ROLLING STOCK.

·	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight,		
exclusive of tender,	350	<b>\$2,513,250 00</b>
Number of locomotives of 20 to 30 tons weight,		• • • • • • • • • • • • • • • • • • • •
exclusive of tender,	<b>54</b>	221,800 00
Total,	404	\$2,735,050 00
Number of passenger cars-12-wheel, including		
official cars,	11	64,500 00
Number of passenger cars - 8-wheel, including		•
official cars.	194	565,500 00
Number of express and baggage cars,	77	138,600 00
Number of box freight cars,	7,340	2,232,800 00
Number of stock cars,	1,386	381,150 00
Number of platform cars,	2,964	
Number of conductors' way cars,	257	
Other cars as follows,	186	82.475 00
Total,	12,415	<b>\$4,266,425</b> 00
Number of locomotives equipped with power brakes,	162	
Number of passenger-train cars equipped with		•,
power brakes,	All.	
Number of freight cars equipped with power brakes,	None.	•
What patterns of power brakes have you in use, and		•
number of locomotives and cars with each?		
Westinghouse air brake,	121	
American steam driver brake,	39	
Westinghouse and American,	2	
Are your freight cars being equipped with automatic	couplers	as required by
Act No. 147, Session Laws of 1885?	-	- •
Yes.		
What pattern or patterns have you adopted for use? Ames.		

## MILEAGE, TRAFFIC, ETC.

### TRAIN MILEAGE.

Miles run by passenger trains during the year, Miles run by freight trains during the year, Miles run by mixed trains,	- -		- -	3,653,108 5,927,767 402,445
Total mileage of trains earning revenue.		_	-	9,983,320

### Passenger Traffic.

Fussenger 17ayıc.											
Number of through passengers carried, Number of local passengers carried, Total number of passengers carried,	-	Numbe and Quant 124,8 2,638,10 2,762,90	ities. 57 04 —	Miles.	Rate.						
Total passenger mileage, or passengers carr Average distance traveled by each passenge Average amount received from each passen Average rate of fare per mile for through Average rate of fare per mile for local passen Average rate of fare per mile for all passen	er, igei pa sen	., - ssengers, gers,	-	66,049	\$1 51 01.87 02.47 02.29						
Freight Trafflc.											
•											
Number of tons of through freight carried, Number of tons of local freight carried,		1,640,6 4,373,5									
Total tons of freight carried,	-	6,014,2	33								
Total mileage of through freight,  Total mileage of local freight,	- -	-		936,516 736,660							
Total freight mileage, or tons carried	on	mile, 🕏	1,340,	673,176							
Average ton haul of through freight,	_		_	455							
Average ton haul for local freight,	_	_	_	136							
Average ton haul for all freight,	_	-	-	223							
Average amount received for each ton hau	ıl,				<b>\$</b> 1 55						
Average rate per ton per mile, received for					00.542						
Average rate per ton per mile, received for					00.886						
Average rate per ton per mile, received fo	r a	ll freight	,		00.694						
Freight Forwarded at M	ich	igan Stati	ions.		Forwarded, Tons.						
Grain,	_	_	_		137,369						
731	-	_			68,455						
Provisions (beef, pork, lard, etc.),		-	_		14.378						
Animals,		-	_		46,944						
O41::	_	-	_		67,783						
Lumber and forest products,	_	_	٠_		1,288,974						
Coal,	_	-	_		62,989						
Plaster, lime and cement,	_	_	-		7,282						
Salt,	_	-	-		191,018						
Petroleum,	_	-			8,660						
Railroad iron, iron and steel rails,	-	_	•		6,852						
Pig and bloom iron,	_	-	-		26,462						
•											

									:	Forwarded Tons.
Other iron and	castings,		-	-	_	-	_	_	_	20,442
Ores,		_	_	-	· _		-	-	_	1,479
Stone, brick and	d sand,	-	_	-	-	-	-	-	_	57.713
Manufactures,-	-articles sh	ipped	l fron	n poi	nt of	produ	action,	_	-	93,036
Merchandise an	d other ar	icles	not e	nume	rated	above	в,	_	_	388,224
Total forw	arded,	-	-	-	-	-	-	-	_ ;	2,488,060

### Tonnage of Articles Transported-Entire Road.

							Tons.	Per Cent.
Grain,	-	_	_	-	-	_	521,366	8.67
Flour,	-	-		-	-	_	208,115	3.46
Provisions (beef, pork, l	ard, e	etc.,	_	_		_	196,901	3.27
Animals,	_	-	-	_	_	_	237,295	3.95
Other agricultural produ		-	-	-	_	_	105 907	1.76
Lumber and forest produ	icts,	-	-	-		_	1,658,804	27./8
Coal,	_	-	-	_	-	_	957,329	15.92
Plaster, lime and cemen	t, _	-	-	_	-	_	8 414	.14
Salt,	-	-	-	-	-	_	238,514	3 97
Petroleum,	_	_	-	-	_	-	37,204	.62
Railroad iron, iron and	steel	rails,	_	_	_	_	70,495	1.17
Pig and bloom iron.	-	-	_	-	_	_	62,849	1.04
Other iron and castings,	_	_	_	_	-	_	79.605	1.32
Ores,	-	-	-	-	-	_	5,281	.09
Stone, brick and sand,	_	_	-	_	-	-	148,160	2.46°
Manufactures,—articles	shipp	ed from	m poi	nt of	pro	duc-	•	
tion,	-	-	-	-	٠.	-	169,422	2.8 2.
Merchandise and other a	rticle	s not e	enum	erated	abov	е, _	1,308,572	21.76
Total tons carried,	-	-	-	-	-	-	6,014,233	100.00

### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

Cars are furnished by Michigan Central R. R.

They do a general express business.

Freight taken and delivered at depots of Michigan Central R. R.

Rates as follows:

#### American Express Company.

Chicago to Buffalo on through freight, Chicago to Buffalo on New York produce	,	-	· · ·	- ''	64.2 0 -	<b>\$</b> 0 80 50				
Chicago to Detroit on fruit,		٠.		. 1: :	· <u>·</u>	<b>, 80</b>				
Buffalo to Chicago on freight from New Y		and I	Boston	to Jo	il-	131				
iet, South Bend and principal interior I					· .	11 <b>80</b>				
North of Bay City to Detroit, on venison,	, - `		-	_	<b>-</b> .	60				
Buffalo to Toledo,	_	_	_ • • • •	_ :	, , <u> </u>	60				
Toledo to Buffalo, on produce,	_	٠ _	-	_	_	44				
Toledo to Buffalo on eastern freight,	-	_	_	_	_	46.2				
Detroit to Buffalo on produce,	1	1 _ , ,	44.00	:_		38 <del>1</del>				
Detroit to St. Thomas,	_	_		_	-	40				
Buffalo to Detroit,	_		-		_	50				
Buffalo to Niagara, on Toronto freight,	_	_	_	-	_	21				
Buffalo to St. Thomas,	_	_	_	_		37				
Niagara to Chippewa,	_		_			18				
Clifton to Niagara,	_	_	_	_		15				
Local freight on Main Line and Air Line, Grand Rapids, Saginaw										
and South Haven Divisions, per ton per	r mile	). · _		,,	100	I 07				
(Guaranteed, \$300.00 per day.)		, -	-	-		,				
Local freight, on other divisions and in Ca	anada	L :-		:-	4.14					
Produce, first-class rates.										
Merchandise, 1½ first-class rates.						•				
Special freight, first-class rates with ten per cent additional.										
Messengers' fares added.	Por				.,					
Tropport Porg. Taron manga.										
Telegraph.										
Number of miles of telegraph on your roa	ad, an	d to	whom	does	it bel	ong?				
Michigan Central Railroad Co.,										
Michigan Central & Western Union Telegraph Company, jointly,										
Western Thien Telegraph Co										

Number of miles of telegraph on your	road	l, and	to w	hom d	i seol	t bela	ng?
Michigan Central Railroad Co., Michigan Central & Western Union	- Telec	- zranh	Čom	- nan∀.	ioint	- lv.	1,095 278
Western Union Telegraph Co.,	-	- -	-		-	-	4,864
Canada Southern Railway,	-	-	-	- '	٠ -	· -	727
Great Northwestern Telegraph Co.,	-	-	-	•	-	-	354
Total							7 319

#### TRANSPORTATION COMPANIES.

#### Sleeping, Drawing-Room and Palace Car Companies,

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Co., Chicago, Ill.,	_	· ·	-	andia. Sector	\$67	98
Man's Boudoir Car Co., New York City,	-	-			34	32
Monarch Sleeping Car Co., New York City,	_	-	-	_	3	24

# Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Statement of amount paid for car mileage run in the State of Michigan, on the M. C. R. R., from January 1st to December 31st, 1887:

on the M. C. R., from January 1st to December 31st, 1887:		
Armour & Company, Chicago, Ill.,	<b>\$</b> 368	17
American Refrigerator Trans. Co., Hy. Sumner, St. Louis, Mo.,	45	76
Arnot & Company, M. H. Arnot, Secretary, Elmira, N. Y.,	6	22
Arms Palace Horse Car Company, C. W. Cushman, Railway		
Car Association, Buffalo, N. Y.,	221	31
Blue line, B. B. Mitchell, Rochester, N. Y.,	70,995	
Boston & Maine, E. B. Hill, Railway Clearing House, Boston,	,	
Mass.	97	82
Boston Live Stock Line, Boston, Mass.,	20,794	66
Bousfield & Company, Bay City, Mich.,	156	
Burton Stock Car Company, E. B. Hill, Railway Clearing		
House, Boston, Mass.,	3	27
Canada Southern Line, B. B. Mitchell, Rochester, N. Y.,	7,026	
Cols. & Hocking Coal & Iron Co., Columbus, Ohio,	854	
Cincinnati, Hamilton & Dayton, Cincinnati, Ohio,	522	
Canada Atlantic, E. B. Hill, Railway Clearing House, Boston,		
Mass.,	79	46
Commercial Express, Jos. H. Craig, L. N. A. & C., Chicago,	••	
Ill.	9	40
Central Car Trust Co., W. K. Anderson, Assistant Treasurer,	_	
Detroit, Mich.,	2,862	12
Chicago, New York Refrigerator Line, Anglo-Am. Prov. Co,	,	
Chicago, Ill.,	54	44
Detroit Car Loan Co., Detroit, Michigan,	395	
Detroit Refrigerator Car Co., Detroit, Michigan,	87	18
Empire Line, F. M. Bissell, Philadelphia, Pa.,	633	
E. C. Walker, Detroit, Mich.,		59
Frazer Lubricator Co., F. M. Luce, Chicago, Ill.,	274	
Georgian Bay Line (N. D. L.), St. Albans, Vt.,	49	62
Grand Rapids & Indiana, Grand Rapids, Mich.,	53	
Great Eastern Line, L. J. Seargeant, G. T. Line, Montreal,		•
Quebec,	13	10
Indiana, Decatur & Springfield, J. V. McNeal, Indianapolis,		
Ind.,	155	38
Louisville, New Albany & Chicago, Jos. H. Craig, L. N. A.		
& C., Chicago, Ill.,	63	46
National Despatch Line, St. Albans, Vt.,	759	
Nickle Plate Line, Chas. S. Tappen, G. M. Rochester, N. Y.,		05
New York Car Trust Cempany, Clev. & Marietta Railway,	_	-
Cambridge, Ohio,	49	26
Ohio Coal Exchange, T. B. Everette, Columbus, O.,	329	
Rend, W. P. & Company, Chicago, Ill.,		77
,	•	

Red Line, G. B. Sherman, G. M., Buffalo, N. Y.,	<b>\$</b> 91	34
St. Louis Refrigerator Car Co., St. Louis, Mo.,	4	10
Trans-Continental Trans. Co., C. A. Haslett, Pd. & G. M		
Chicago, Ill.,	13	01
Union Tank Line, M. A. Robinson, 44 Broadway, N. Y.,	154	70
West. Mich. Equipment Lum. Co., U. B. Rogers, Muskegon,		• •
Mich.,	165	92
Wheeling & Lake Erie Railway, S. H. Ayers, Auditor, Tole-		
do, O.,	38	41
White Line, G. B. Sherman, G. M., Buffalo, N. Y.,	47	85
Total,	\$107,494	61

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

January 18. A. Dankel, trespasser, Grand Rapids, struck by train, carelessness; Company not responsible.

January 18. Mrs. Wm. Wiley, trespasser, Bath, struck by train, care-

lessness; Company not responsible.

February 13. E. E. Town, brakeman, Concord, fell from train, carelessness; Company not responsible.

February 14. Richard Rosser, brakeman, Rochester, caught foot in

guard rail, carelessness; no inquest held.

February 24. Mrs. C. Frey and child, trespassers, walking on track, carelessness; Company not responsible.

February 24. Webb Miller, trespasser, Nashville, fell from freight train,

stealing ride: responsibility not located.

March 12. Philip Barney, trespasser, walking on track, intoxicated; Company not responsible.

March 20. Mrs. Dennis Warner, Dexter, trying to cross track ahead of

train; Company not responsible.

April 15. Hiram Sackett, brakeman, Dexter, fell between cars, lack of caution; Company not responsible.

April 16. Chas. Abbott, trespasser, Kalamazoo, found dead on track,

struck by train, insane; Company not responsible.

April 21. Jos. Gross, trespasser, Wasepi, stealing ride; Company not responsible.

May 11th. Ida Stevens, trespasser, West Bay City, walking on track; no

inquest held.

June 3. C. F. Dunbar, switchman, Detroit, coupling cars, slipped and fell; responsibility not located.

June 9. E. Zimmerman, laborer, Three Oaks, struck by train, carelessness;

Company not responsible.

June 13. Henry Baumgard, farmer, Monroe, driving in front of train; Company not responsible.

July 9. Albert Strong, boy Wasepi, driving in front of train; responsi-

bility not located.

July 29. Wm. Quake, tramp, Three Rivers, supposed to have jumped off train; no inquest held.

August 1. Harvey Slack, trespasser, Pinconning, found dead on track struck by unknown train; Company not responsible.

August 7. Thos. Knight, conductor, Bay City, fell from train; Company

not responsible.

August 17. Bertha Allen, age 3 years, Grand Junction, struck by train on crossing. No inquest held.

August 25. Simon Powers, trespasser, Niles, walking on track, struck by

train; Company not responsible.

August 28. Geo. Irish, trespasser, Lapeer, lying on track intoxicated, run over; Company not responsible.

October 7. Wm. Coates, trespasser, Buchanan, found dead on track, circumstances unknown; responsibility not located.

October 19. Hannah Tedder, Jackson, playing on track at crossing, struck by train; Company not responsible.

October 22. Fred. Brown, trespasser, Ypsilanti, walking on track, struck

by train; Company not responsible.

November 6. Adell Kempton, trespasser, Parma, walking on track, struck by train, insane; Company not responsible.

November 7. A. Sheville, brakeman, Albion, caught foot in switch

uncoupling cars; company not responsible.

November 13. James H. Hayes, trespasser, Three Rivers, found dead on track, supposed to have been struck by train; responsibility not located.

December 3. Unknown man, trespasser, Otter Lake, walking on track,

struck by train; Company not responsible

December 7. Jos. Gelitzki, trespasser, West Detroit, walking on track, struck by train; Company not responsible.

December 8. Norton P. Holmes, trespasser, Grand Rapids, walking on track, struck by train; Company not responsible.

#### INJURED.

January 6. Mrs. R. G. Wood, Jackson, cut over eye and side hurt, in street car struck by train; car stopped on track.

January 10. Michael Hebich, Detroit, chest and thigh bruised, struck by

train on crossing; lack of caution.

January 13. R. Stover, brakeman, Tekonsha, three fingers crushed, coupling; carelessness.

January 15. C. Eggleston, brakeman, Battle Creek, finger smashed, coupling, carelessness.

January 19. C. McCabe, brakeman, Casopolis, foot crushed, jumping on train; carelessness.

January 26. Sydney S. Allen, Saginaw, trespasser, leg and ankle broken, foot bruised, struck by cars; carelessness.

January 29. John McKnight, switchman, Detroit, two fingers crushed, coupling; carelessness.

January 31. F. A. Fox, brakeman, Cheboygan, finger broken, coupling: carelessness.

February 4. Robert Crawford, brakeman, Slocum Junction, finger crushed, coupling; carelessness.

February 5. A. Buker, car repairer, Jackson, leg fractured, arm bruised, working under car with no flag out, run over.

February 5. Henry Martin, switchman, B. C. Junct., finger crushed coupling; carelessness.

February 5. Chas. Ashman, laborer, Pinconning, foot broken, log falling

on it; lack of caution.

February 18. John Coyne, brakeman, Junet. Yard, thumb crushed, uncoupling; carelessness.

February 21. Jos. Nephew, brakeman, West Branch, foot crushed, climbing between cars; carelessness.

February 22. Jos. Butcher, laborer, Pinconning, foot broken, rail falling on it; carelessness.

March 3. P. 'Cull, switchman, Grand Rapids, two fingers crushed, coupling; carelessness.

March 6. Owen Williams, passenger, Bath Mills, head and knee cut, fell from train; carelessness.

March 8. Thos. Inglas, Detroit, head cut, crossing track ahead of train; carelessness.

March 11. S. P. Jacot, brakeman, Wayne Junction, thumb and two fingers crushed, coupling; carelessness.

March 15. Louis Hackstedt, trespasser, Ypsilanti, leg and arm cut off, stealing ride; carelessness.

March 15. Frank Kerroc, laborer, West Bay City, end of finger crushed, unloading ties; carelessness.

March 16. E. B. Barrett, passenger, Burlington, slightly bruised, jumping from train in motion; carelessness.

March 17. Thos. G. Stevenson, brakeman, Terrys, shoulder dislocated, falling from train; lack of caution.

March 19. Geo. Emory laborer, Pinconning, ankle broken, falling from train; lack of caution.

March 21. Hugh McDonald, switchman, Detroit, hand crushed, coupling; carelessness.

March 22. Joseph McContish, switchman, Saginaw, finger broken, coupling; carelessness.

March 22. Eugene Morgan, trespasser, Carrollton, face bruised, stealing ride; carelessness.

March 23. Wm Kennedy, trespasser, Saginaw, knee cut, stealing ride; carelessness.

April 8. Andrew Springsted, switchman, Ann Arbor, shoulder fractured and two ribs broken, squeezed between two cars; lack of caution.

April 21. Mrs. J. Bartholomew, passenger, Thomas, side bruised by way car backing off switch; accidental.

April 28. Fred Collins, trespasser, Warren, head cut, stealing ride; carelessness.

May 2. Michael McManus, aged 8 years, trespasser, West Bay City, leg crushed, stealing ride; carelessness.

May 2. C. R. Dean, switchman, Detroit, arm crushed, coupling; carelessness.

May 4. A. J. Scott, fireman, Greenwood, arm broken, jumped or fell from engine; lack of caution.

May 5. Jas. Cullen, brakeman, Vasar, testicles injured, falling astride of telegraph poles; lack of caution.

May 6. Samuel Robinson, brakeman, Middleville, ankle sprained and two toes dislocated; coupling cars; carelessness.

May 7. L. Grow, 'bus driver, Owosso, chest injured, driving in front of

engine; lack of caution.

May 7. Halett Allison, trespasser, White Feather, scalp cut, lying on track intoxicated, and struck by train; carelessness.

May 11. Chas. Picard, brakeman, Pinconning, two fingers smashed, coup-

ling; carelessness.

May 12, Jno. Tortelivish, laborer, Pinconning, collar bone broken, knocked off top of car; lack of caution.

May 14. Amos Green, brakeman, Grayling, finger crushed, coupling; carelessness.

May 23. Herman Benwig, brakeman, Wyandotte, finger crushed, coupling; carelessness.

June 6. F. W. Kearner, trespasser, Jackson, arm broken, walking on track; carelessness.

June 8. Wm. Lake, trespasser, Jackson, scalp cut and finger crushed; lying on track, intoxicated and struck by engine.

June 11. Almond H. King, Hunter's Creek, back hurt, struck by piece of

iron thrown by engine, blowing out cylinder head; accidental.

June 13. William Bell, trespasser, Otter Lake, arm broken and head bruised, struck by train, intoxicated; carelessness.

June 29. Boy (name unknown). Monroe, badly injured, driving in front of train; carelessness.

July 9. Elijah Strong, skull fractured, G. E. Hunt, scalp cut, boys, Wasepi, driving in front of train; carelessness.

July 11. Marie Olsen, foot and leg bruised, Wm. Melvold, head cut, E. S. Melvold, head and hand injured and internal injuries, Amelia Jansen, leg injured, passengers on C. & G. T., Lapeer, collision on crossing; accidental.

July 12. D. C. Maxson, switchman, Jackson, arm crushed, coupling; carelessness.

July 13. Mrs. Thomas Peach, Rives Junction, trespasser, head cut, walking on track; carelessness.

July 31. Unknown man, trespasser, Gibralter, head injured and arm broken, found on track; circumstances unknown.

August 2. Edward Kenward, fireman, Marshall, injured internally, falling from engine tank; lack of caution.

August 4. Wm. Young, brakeman, Jackson Junction, thumb smashed,

coupling; carelessness.

August 7. J. Fitzgerald, brakeman, Chelsea, arm crushed, coupling cars; carelessness.

August 10. Amos Green, brakeman, Beaver Lake, four toes crushed, stepping on pilot of engine; carelessness.

August 12. — Doran, trespasser, West Detroit, leg injured, stealing ride, intoxicated; carelessness.

August 14. S. J. Reed, brakeman, Vassar, shoulder dislocated, fell from top of car in collision; accidental.

August 18. Aug. Brooks, laborer, Marengo, leg injured, squeezed between cars; carelessness.

August 18. A. B. Landon, brakeman, Niles, hip and back injured, thrown from car by car jumping track; accidental.

August 18. Redford Goodison, trespasser, Orion, slightly injured, stealing ride, intoxicated; carelessness.

August 27. Jno. Wisner, passenger, Vassar, nose and chin skinned, jumping on moving train; carelessness.

August 27. Chas. Girard, trespasser, West Detroit, leg cut off, picking up coal on the tracks; carelessness.

August 31. Fred. Gearing, trespasser, Detroit, leg cut off, walking on track and struck by engine; carelessness.

September 2. V. Joun, laborer, Linwood, leg broken, handling rail; carelessness.

September 10. W. D. Loomis, conductor, Jackson, leg cut off, knocked from side of car and run over; lack of caution.

September 10. Andrew Nelson, car repairer, Grayling, two fingers crushed, coupling; carelessness.

September 12. C. Chase, deputy sheriff, Dowagiac, head cut, jumping from train in motion; carelessness.

September 17. John Tobin, brakeman, Orion, two fingers crushed, coupling; carelessness.

September 19. —— Fennery, trespasser, Jackson, one leg cut off and one badly crushed, stealing ride; carelessness.

September 19. A. McDonald, passenger, Pinconning, slightly bruised, car thrown off track by striking tree; accidental.

September 21. Ed. Cronin, tramp, Wayne Junction, foot cut off, stealing ride; carelessness.

September 23. C. Getten, switchman, Jackson, three fingers bruised, coupling; carelessness.

October 3. O. Avery, switchman, Jackson, foot bruised and toe broken, piece of iron falling on it while coupling; accidental.

October 4. T. M. Hallett, switchman, Kalamazoo, ankle dislocated running for engine; carelessness.

October 5. D. McCory, Standish, leg broken, struck by hand-car at crossing; carelessness.

October 6. Edward W. Mitchell, switchman, Bay City, hand crushed, coupling; carelessness.

October 8. L. Hickman, conductor, Augusta, finger crushed, coupling; carelessness.

October 12. J. Choff, brakeman, Wayne Junction, finger crushed, coupling; carelessness.

October 15. Gottlieb Bowen, Three Oaks, scalp wound and ear torn off, driving in front of train; lack of caution.

October 20. J. M. Wells, conductor, Albion, anger split, coupling; carelessness.

October 22. A. C. Hitch, switchman, W. Bay City, finger smashed, coupling; carelessness.

October 27. J. B. Woodburn, brakeman, Otsego Lake, finger smashed, coupling; carelessness.

November 5. E. J. Burwall, Bay City, leg broken, horse fell against him account engine backing up on to car; acciden al.

November 7. Geo. Holliday, trespasser, Battle Creek, foot run over, stealing ride; carelessness.

November 8. Marshall Cutler, passenger, Wayne Junction, scalp wound, jumping from train in motion; carelessness.

November 9. H. Darling, switchman, South yards, arm crushed, coupling;

carelessness.

November 9. W. H. Younkins, engineer, Kalamazoo, one rib fractured, lever flying back; accidental.

November 10. Chas. Hines, passenger, W. Detroit, badly bruised, jumping from train in motion; carelessness.

November 16. Chas. Henry, laborer, Detroit, legs cut off, run over by engine; lack of caution.

November 21. Geo. Bowen, switchmen, Jackson Junction, arm bruised, coupling; carelessness.

November 22. Jas. Hancock, brakeman, Watrousville, finger bruised, coupling; carelessness.

November 30. Henry Cousins, Vienna, slightly bruised, driving across track ahead of train, intoxicated and asleep.

December 1. C. Cole, brakeman, Waters, chest squeezed, coupling; carelessness.

Dec. 3. Elmer Osborn, Jackson, scalp wound, driving in front of train; carelessness.

December 3. J. H. Harding, passenger, Lansing, bruised, jumping on train in motion; carelessness.

December 3. John Little, Detroit, scalp wound, driving in front of train; carelessness.

December 3. Wm. Quigley, switchman, Detroit, squeezed, caught between car and platform; lack of caution.

December 23. A. Billings, brakeman, Francisco, arm fractured, coupling; carelessness.

December 24. Miss M. Martin, passenger, Columbiaville, hand cut slightly, thrown against car door by engine backing on to train; accidental.

December 27. Chas. Comiskey, laborer, Detroit, leg broken, handling rail; carelessness.

December 27. M. J. McCauley, brakeman, South Yards, three fingers crushed, coupling; carelessness.

December 28. N. Townsend, brakeman, Vassar, arm crushed coupling; carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions				4		
Coupling cars		1			86	
Derailments		<b></b>	<u></u>	2	1	
Falling from trains		8		1	6	
Frogs		2				
Getting on and off trains	I			6	8	
Highway crossings	 		5			19
Miscellaneous	•	1		2	14	1
Overhead obstructions					ļ	
Trespassers on trains		 	8			12
Trespassers on tracks			· 17			9
Total		7	25	15	60	88
SUMMA	RY OF A	CCIDEN	rs in mi	CHIGAN.		
Number of persons killed	d during	the year.		_		32
Number of persons injur				_		108
Number of casualties pur	rely accid	lental,		-	_	13
Number resulting from l	ack of c	aution, c	arelessne	ss, or m	is-	
_ conduct,		_		-	-	. 86
Persons killed or injured			d, -	•	-	8
Trespassers and tramps k	illed or i	njured,		-	-	33
Suicides,		-		-	-	_

# CLASSIFICATION OF EMPLOYÉS. KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	4	27	81
Conductors	1	. 8	4
Engineers		1	1
Firemen		2	2
Laborers	1	9	10
Shopmen			
Yardmen	1	16	17
Not classified above		2	3
Total	7	60	67

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

H. B. Ledyard, President, and D. A. Waterman, Auditor, of the Michigan Central Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, D. A. WATERMAN.

Subscribed and sworn to before me this 16th day of March, A. D. 1888.

GEO. L. NADOLLECT,

Notary Public Wayne Co., Mich.

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# ANNUAL REPORT

#### OF THE

# CANADA SOUTHERN BRIDGE COMPANY.

For the Year ending December 31, 1887.

[Filed April 10, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.

Secretary and Treasurer, CHARLES F. COX, New York.

Transfer Agent, LANDRETH H. KING, New York.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York.
WILLIAM K. VANDERBILT, New York.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York.
CHARLES F. COX, New York.
EDWIN D. WORGESTER, New York.
EDWARD A. WICKES, New York.
WILLIAM L. SCOTT, Erie, Pa.
CHAUNCEY M. DEPEW, New York.

Terms expire June, 1888.

# STOCKHOLDERS, STOCK AND GENRRAL OFFICES.

When chartered or articles of association filed,—Consolidat	ion,	Augus	t 20, 1878.	
Number of stockholders at date of last election,	_	-	-	16
Number of stockholders in Michigan at same date,	-	_	-	None.
Amount of full paid stock held in Michigan at same date,	-		-	None.

Date of annual meeting of stockholders,—First Thursday after first Wednesday in June. Fiscal year of Company ends,—December 31.

General offices of the Company are located at Detroit, Mich.

#### REMARKS.

The stock is centrolled by the Canada Southern Railway Company, and the road, bridge, etc., are operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00  Average price received per share, 100 00  No. of shares issued, 4,500 00	\$1,500,000 00
Amount paid in on common, \$450,000 00	•
Total amount paid in, as per books of the company,	450,000 00
Paid in per mile of road owned by Company,—Miles, 3.66, \$12,267 76	<b>;</b>

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage coupon of February 1, 1874	7 per ct.	Feb. 1, 1904 Interest Feb. \and August. \	New York New York.	\$1,000,000 00
Total funded debt				\$1,000,000 00

#### UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		
For equipmen		
For real; estate		
For renewals		
Interest on bonds	No special provision	\$910,000 00
For current balances		62,485 37
FOR CUTTERIT DELEMICOS		
Total unfunded debt		\$972,485 8

#### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	\$1,000,000 972,485	
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$1,972,4</b> 85	37
Amount of debt liabilities	per	mile c	f roa	d,—3.	66 <b>m</b>	iles,	-	538,930	00
Total amount of stock and Stock and debt per mile of			-	-	-	-	-	\$2,422,485 551,197	

#### Interest on the Funded Debt.

What is the amount of the same due each year, \_ \_ \_ \$70,000 00 Was it paid for the last year? \_ \_ \_ \_ No. If interest is in default state the years and amounts as follows: Coupons due 1875 to 1887 inclusive, \$70,000 per annum.

# COST OF ROAD AND EQUIPMENT,

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,	\$1,780,977	05
Average cost of construction per mile of road (not including		
sidings),—3.66 miles,	486,578	00
	1,780,977	05

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: September 1873.

#### MAIN LINE.

	Miles, 100ths, Miles, 100ths,
Length completed in Michigan,	<b>3</b> 66
m	
Total length completed,	3 66
Total length of road belonging to this Company in	
Michigan,	3 66
Aggregate length of sidings, spurs and other tracks not	
above enumerated,	9 D6
Same in Michigan,	9 06
Aggregate length of tracks belonging to this Company,	
computed as single track,	12 72
Same in Michigan,	12 72
Gauge of track, 4 feet 81 inches.	

STATE OF NEW YORK, SS. COUNTY OF NEW YORK,

Charles F. Cox, Secretary and Treasurer of the Canada Southern Bridge Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887. to the best of his knowledge and belief.

[L. S. OF B. B.] Signed, C. F. COX, Secretary and Treasurer.

Subscribed and sworn to before me this 6th day of April, A. D. 1888,

[L. S.] D. W. PARDEE,

Notary Public, Kings Co., cert. filed in N. Y. Co.

# ANNUAL REPORT

#### OF THE

# DETROIT & BAY CITY RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, C. VANDERBILT, New York city.

Secretary and Treasurer, E. D. WORCESTER, New York city.

# DIRECTORS.

C. VANDERBILT, New York city,
W. K. VANDERBILT, New York city.
C. M. DEPEW, New York city.
S. F. BARGER, New York city.
ASHLEY POND, Detroit, Mich.

Elected May, 1885. Term expires when successors are elected.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May 22, 1871.	
Number of stockholders at date of last election,	7
Number of stockholders in Michigan at same date,	3
Amount of full paid stock held in Michigan at same date, 300 a	hares.
Date of annual meeting of stockholders,—First Thursday after first Wednesday in	May.
Fiscal year of Company ends December 31.	
General offices of the Company are located at Detroit, Mich., and New York city	r.

#### REMARKS.

Under an agreement dated March 10, 1881. the Detroit & Bay City Railroad Company transferred the possession and control of its railroad and property to the Michigan Central Railroad Company. The latter Company agreed to operate the same during its corporate existence. Under the terms of this agreement the Michigan Central Railroad Company is authorized and agrees to issue its bonds to the amount of \$4,000,000.00, and both companies have joined in the execution of a mortgage upon all the Detroit & Bay City Railroad's Company's property to secure the payment of said bonds.

#### ANALYSIS OF CAPITAL STOCK.

	- \$2,000,000 00	
Par value of shares, \$100 00		
Average price received per share, 100 00	•	
No. of shares issued, 20,000		
Amount paid in on common, \$2,000,000 0	0	
	_	
Total amount outstanding as per books of the Company	<b>\$2,000,000</b> 00	
	<b>\$2,000,000 00</b>	
Paid in per mile of road owned by Company,	, ,	
	, ,	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$4,000,000.00, secured by a first mortgage on the property of the Detroit & Bay City Railroad Co.

UNFUNDED DEBT.

None.

#### RECAPITULATION.

Total amount of stock and debt,	_	-	_	-	-	<b>\$2,000,000 00</b>
Stock and debt per mile of road	miles,-	147.25	miles		_	13,582 34

# COST OF ROAD AND EQUIPMENT.

Included in Michigan Central Railroad Company's report.



#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 2nd, 1879.

•	MAIN	LIN	E.						
Length completed in Michigan,	-	•	-	-	-	Miles, 109	-	Miles. I	Oths.
Total length completed,	-	-	-	-	-	-	_	109	00
	BRA	NCHE	8.						
From Lapeer to Five Lakes, From Denmark Junction to Ea From Vassar to Caro,	st Sag	inaw -	- , -	-	-	16	75 75 75		
Total length of branches or	wned	b <b>y</b> Co	mpan	у,	_		_	38	25
Total length of branches owned	d by (	Comp	any in	Mic	hi-	38	25		
Total length of road belonging a Total length of road belongin	to this	- Com this	pany, Comi	- - nan v	in	-	-	147	25
Michigan,Aggregate length of sidings, a	<u>.</u>	_			_	147	25		
not above enumerated,	-	-	-	-	•	35	28	35	28
Aggregate length of tracks bel computed as single track,	ongin -	g to	this C	ompa	any,	-		182	53
Same in Michigan, Gauge of track, 4 feet 81 inches	-	-	-	-	-	182	53		
Road belonging to the Company Leased—Bay City Street Railwa	as ab	ove, -	-	-	-	147 5	25 10		
Total operated,	-	-	-	-	-	_	-	152	35

STATE OF NEW YORK, COUNTY OF NEW YORK, ss.

C. Vanderbilt, President, E. D. Worcester, Sécretary, of the Detroit & Bay City Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, C. VANDERBILT, President. E. D. WORCESTER, Secretary.

Subscribed and sworn to before me this 10th day of March, A. D. 1888.

[L. S.]

D. W. PARDEE,

Notary Public Kings Co., Certificate filed in N. Y. Co.

# ANNUAL REPORT

#### OF THE

# GRAND RIVER VALLEY RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, AMOS ROOT, Jackson, Mich. Secretary and Treasurer, E. W. BARBER, Jackson, Mich.

#### DIRECTORS.

Amos Root, Jackson, Mich.

Edward W. Barber, Jackson, Mich.

William H. Withington, Jackson, Mich.

Austin Blair, Jackson, Mich.

Edward S. Lacey, Charlotte, Mich.

Homer G. Barber, Vermontville, Mich.

Nathan Barlow, Hastings, Mich.

Terms expire October, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May	4, 18	<b>46.</b>					
Number of stockholders at date of last election,	-	_	-	-	-		48
Number of stockholders in Michigan at same date,	-	-	-	_	-		28
Amount of full paid stock held in Michigan at same of	late,	-	-	-		<b>\$824,4</b> 50	00
Date of annual meeting of stockholders,—First Mond	lay ir	a Oct	ober	•			
Fiscal year of Company ends,—December 31.							
General offices of the Company are located at Jackso	n, M	ichig	an.				

# REMARKS.

The Grand River Valley Railroad is leased and operated by the Michigan Central Railroad Company, the lease being perpetual, the Michigan Central Company having assumed all obligations and having entire control of the road of the Grand River Valley Company.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or ar Par value of shares,	<b>\$</b> 50 00 50 00	<b>\$1,000,000 00</b>
No. of shares issued, Amount paid in on common, _		
Total amount paid in as per boo	oks of the Company,	<b>\$</b> 491,200 00
Paid in per mile of road owned pany,—83.79 miles,		

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
*First mortgage	-			\$1,500,000 00
Total funded debt			•••••	\$1,500,000 00

\*This amount of \$1,500,000 is not in fact a debt of this Company, but is represented by bonds of the M. C. R. R. Co., which that Company, by its agreement with this Company is obligated to pay; but said bonds are secured by a first mortgage on the property of this Company.

#### UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt,	-	-	-	-	-	-	-	<b>\$1,500,000</b>	00
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$1,500,000</b>	00
Amount of debt liabilities	g pe	r mile o	f ro	ad [83	.79 n	niles],	_	17,900	00

1887.]	· GRAND RIVER VA	LLEX	KA	ILKOA	טט ע.	•	139
	stock and debt, _ per mile of road,	-	<u>-</u>	-	•	· <b>-</b>	\$1,991,200 00 23,762 27
	Interest on t	he Fur	ided	Debt.			
	ount of same due each the last year,			-	-	-	\$90,000 00 It was.
	COST OF ROAD	AND	EQU	IPME	NT.		
Total Cost for Co	nstruction and Equipme	nt of H	Road,	and B	ranch	28 Br	ilt by Company,
Average cost of	for construction, construction per mile		oad		nclud		*\$2,867,053 03
sidings) 83.79 Proportion of c	miles, ost of construction fo	r Micl	- higa	- n,	<b>-</b>	-	34,229 17 2,867,053 03

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: 1870.

#### MAIN LINE.

Length completed in Michigan,	-	_	-	-	-	Miles, 10 83		Miles, 100ths.
Total length completed,	-	-	-	-	-	-	_	83 79
Total length of road belonging total length of road belongin	lo this	o Con	ipany Comi	, oanv	- in	-		83 79
Michigan, Aggregate length of sidings, s	-	-	- '	_	-	. 83	79	
not above enumerated, _ Same in Michigan,	- -	- -	-	-	-	- 14	64	14 64
Aggregate length of tracks belo computed as single track,	nging -	to th	is Co	mpan -	y, -	_		98 43
Same in Michigan, Gauge of track, 4 feet 81 inches		-	-	-	-	98	43	

<sup>\*\$1,500,000.00</sup> of this amount is included in the report of the Michigan Central Railroad Company as amount expended on account of leased lines for construction.

STATE OF MICHIGAN, SS. COUNTY OF JACKSON,

Amos Root, President, and E. W. Barber, Secretary, of the Grand River Valley Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

AMOS ROOT, President, E. W. BARBER, Secretary.

Subscribed and sworn to before me this 20th day of January, A. D. 1888.
I. M. ROOT,

Notary Public, Jackson Co., Mich.

#### ANNUAL REPORT

#### OF THE

# JACKSON, LANSING & SAGINAW RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HENRY A. HAYDEN, Jackson, Mich. Secretary, ORLANDO M. BARNES, Lansing, Mich. Treasurer, WM. D. THOMPSON, Jackson, Mich. Transfer Agent, HENRY PRATT, New York city.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York city.

JAMES F. JOY, Detroit, Mich.

HENRY B. LEDYARD, Detroit, Mich.

HENRY A. HAYDEN, Jackson, Mich.

WM. D. THOMPSON, Jackson, Mich.

PETER B. LOOMIS, Jackson, Mich.

ORLANDO M. BARNES, Lansing, Mich.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—February	23, 1	864.			
Number of stockholders at date of last election,	_	_	_		88
Number of stockholders in Michigan at same date,	-		-	•	21
Amount of full paid stock held in Michigan at same date,	-	-	-	\$1,806,600	00
Date of annual meeting of stockholders,-March 7th, 1888.					
Fiscal year of Company ends,—Calender year.					
General offices of the Company are located at Lansing.					



#### REMARKS.

The Michigan Central Railroad Company controls and operates the property belonging to this corporation under an agreement which went into effect September 1, 1871.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	2,500,000 00
Average price received per share, 100 00	
No. of shares issued, 20,000 Amount paid in on common, \$2,000,000 00	)
Total amount paid in, as per books of the Company,	<b>\$2,000,000 00</b>
	• •

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Consolidated mortgage bonds	· -	,	New York city	, ,
Total funded debt				\$2,709,000 00

#### UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt,	-	-	-	-	-	-	-	<b>\$2,709,000 00</b>
Total debt liabilities.	-	-	<b>-</b> .	-	-	-	-	\$2,709,000 00
Amount of debt liabilities	per 1	nile c	f roa	d,—2	95.10	miles	B, -	9,179 94
Total amount of stock and Stock and debt per mile of	debt	,, l,	-	-	-	-		4,709,000 00 15,957 30

#### Interest on the Funded Debt.

What is the amount of same due each year?	
The interest is 8 per cent on the . \$1,609,000 00	
And 6 per cent on the 1,100,000 00	
Making the amount of interest due each year,	<b>\$194,720 00</b>
Was it paid for the last year?	•
It was.	

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Cannot state, as the Michigan Central Company paid considerable in addition to that paid by this Company, as stated, and the whole is included by the report of that Company.

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 31, 1882.

#### MAIN LINE.

Length completed in Michigan,		-	-	-	- M	295		Miles, 10	Oths.
Total length completed, .	-	-	-	-	-	-	-	295	10
Total length of road belonging to Total length of road belonging to t					- .i-			295	10
gan, Aggregate length of sidings, spur	-		_	_	_	2 <b>9</b> 5	10		
above enumerated, Same in Michigan,	· .	-	-	•	-	137	47	137	47
Aggregate length of tracks below puted as single track,	iging -	to th	nis Co -	mpan -	<b>y, c</b> o -	m- -	_	432	57
Same in Michigan, Gauge of track 4 feet 81 inches.	•	-	-	-	•	432	57		

STATE OF MICHIGAN, SS. COUNTY OF INGHAM,

O. M. Barnes, Secretary of the Jackson, Lansing & Saginaw Railroad Company being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, O. M. BARNES, Secretary.

Subscribed and sworn to before me this 20th day of February, A. D., 1888. C. J. DAVIS,

Notary Public Ingham Co. Mich.

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#### ANNUAL REPORT

#### OF THE

# KALAMAZOO & SOUTH HAVEN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich.

Secretary, Treasurer, and Transfer Agent, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City.

E. D. WORGESTER, New York City.

ASHLEY POND, Detroit, Mich.

H. B. LEDYARD, Detroit, Mich.

G. V. N. LOTHROP, Detroit, Mich.

HENRY RUSSEL, Detroit, Mich.

D. A. WATERMAN, Detroit, Mich.

J. R. DUTTON, Detroit, Mich.

J. E. GRIFFITHS, Detroit, Mich.

A. L. OSBORN, La Porte, Ind.

STEPHEN S. COBB, Kalamazoo, Mich.

GEO. HANNAHS, South Haven, Mich.

G. N. HALE, South Haven, Mich.

Terms expire March 14, 1888.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—April 15, 1869.

Number of stockholders at date of last election, \_\_\_\_\_

202

Number of stockholders in Michigan at same date,	124
Amount of full paid stock held in Michigan at same date,	\$825,100 00
Date of annual meeting of stockholders,—Second Wednesday in March.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Dotroit, Michigan.	

# REMARKS.

Leased to the Michigan Central Railroad Company July 1, 1870, that Company agreeing to complete, operate, pay the interest on bonds, pay taxes, etc., the same as if actual owners. Lease perpetual.

# ANALYSIS OF CAPITAL STOCK.

\_\_\_\_\_

Amount authorized by charter or articles of association,	<b>\$</b> 500,000 00
Par value of shares, \$100 00	
Average price received per share, 100 00	
No. of shares issued, 3,254	
Amount paid in on common, \$325,400 00	
Total amount paid in, as per books of the Company,	325,400 00
Paid in per mile of road owned by Company, 39.50 miles, \$8,237 97	
·	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds	8	Nov. 1, 1889 Nov. 1, 1889		\$640,000 OO 70,000 OO
Total funded debt			·	\$710,000 00

# UNFUNDED DEBT.

None.



26,212 66 1,035,400 00

# RECAPITULATION.

Total funded debt,		3	-	-	-	-	-	<b>\$710,000 00</b>		
Total debt liabilities,			-	-	-	-	-	<b>\$</b> 710,000 <b>0</b> 0		
Amount of debt liabilities	per mil	le of	road	[39.50	) mile	es],	-	17,974 68		
Total amount of stock and Stock and debt per mile of			- -	-	-	- -	-	1,035,400 00 26,212 66		
	Interes	t on.	Funde	ed Deb	t.			•		
What is the amount of san Was it paid for the last y			-	-		-	-	56,800 00 Yes.		
COST OF ROAD AND EQUIPMENT.										
Total Cost for Construction an	ıd Equi	pmen	t of R	eoad, a	nd Br	anches	Bui	It by Company.		
Total expended for constru	etion,	• • •		-	-, .	;	-	<b>\$</b> 1,035,400 00		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 2, 1881.

Average cost of construction per mile of road (not including

sidings),—39.50 miles, \_ \_ \_ \_ Proportion of cost of construction for Michigan, \_

#### MAIN LINE.

Length completed in Michigan,	-	-	-	-	-	Miles, 19	00ths. 50	Miles, l	Ooths.
Total length completed,	-	-	-	-	-	-	-	39	50
Total length of road belonging Total length of road belongin Michigan, Aggregate length of sidings, spe	g to	this	Comp	pany -	-	- <b>39</b>	- 50	39	50
above enumerated, Same in Michigan, Aggregate length of tracks belo	-	-	-	-	-	3	78	3	78
computed as single track,  Same in Michigan,  Gauge of track, 4 feet 8½ inch	-		-	- -	-	43	28	43	28

STATE OF MICHIGAN, SS. COUNTY OF WAYNE.

Ashley Pond, President, and D. A. Waterman, Secretary, of the Kalamazoo and South Haven Railroad Company being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

ASHLEY POND, President. D. A. WATERMAN, Secretary.

Subscribed and sworn to before me this 7th day of March, A. D. 1888.

[L. S.]

GEO. L. NADOLLLECT,

Notary Public, Wayne Co., Mich.

#### ANNUAL REPORT

#### OF THE

# MICHIGAN AIR LINE RAILROAD COMPANY

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich.
Sec., Treas. and Transfer Agent. D. A. WATERMAN, Detroit, Mich.

# DIRECTORS.

- C. VANDERBILT, New York city.
- W. K. VANDERBILT, New York city.
- C, M. DEPEW, New York city.
- E. D. WORCESTER, New York city.
- H. B. LEDYARD, Detroit, Mich.
- ASHLEY POND, Detroit, Mich.
- W. H. WELLS, Detroit, Mich.
- H. M. CAMPBELL, Detroit, Mich.
- A. C. ANGELL, Detroit, Mich.
- D. A. WATERMAN, Detroit, Mich.
- H. W. FRENCH, Three Rivers, Mich.
- E. BANCKER, Jackson. Mich.
- E. PRINGLE, Jackson, Mich.

Elected May, 1887.

Term expires when successors are elected.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,-August 24	5, 18	68 ;	Oct	ober 11,	1870.
*Number of stockholders at date of last election,	-			-	
*Number of stockholders in Michigan at same date,	-		_	-	
*Amount of full paid stock held in Michigan at same date,	_		-		
Date of annual meeting of stockholders,—Third Wednesda	y in	Oct	obei	·.	
Fiscal year of Company ends December 31.	_				
General offices of the Company are located at Detroit Mich	h				

# REMARKS.

This property is under perpetual lease to the Michigan Central Railroad Company, and has been so leased since its construction.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by cha Par value of shares, _ Average price received per s	-	-	<b>\$</b> 50	00	ociati	on,	-	<b>\$4</b> ,000,000 <b>00</b>
No. of shares issued, _ Amount paid in on commo Amount paid in on shares	n,		7,56 -	51 <u>‡</u> -	-	-	-	Not known.
ber —),			•		Not	knov	vn.	
Total amount paid in, (Books not kept to s					ompa	ny,	-	
Paid in per mile of road or	vned	by Co	mpa	ny,	-	_	_	Not known.

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Mortgage bonds, January, 1870	8 per cent	1890	New York	\$200,000 00
Total funded debt				\$200,000 00

<sup>\*</sup>The Michigan Central has recently secured a majority of the stock, and control of the property, and finds the books are in such an imperfect condition that it will be impossible at the present time to make reliable answer to most of the interrogatories as contemplated by the form for the report.

# Interest on the Funded Debt.

What is the amount of same due each year,	-	-	-	<b>\$</b> 16,000 00
Was it paid for the last year?	_	-	-	Yes.

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,  Average cost of construction per mile of road (not including	Not known.
sidings), — miles,	Not known. Not known.

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January, 1871.

# MAIN LINE.

						Miles, 1	00ths.	Miles.	l00ths.
Length completed in Michigan,		-	-	•	-	109	-		
Length completed in Indiana,	- ,		-	-	-	-0	06		
Total length completed,	-	-	-	-	-	-	-	115	16
Total length of road belonging						-	-	115	16
Total length of road belonging Michigan,		-	-		-	109	10		
Aggregate length of sidings, spu	178, 81	id oth	er tra	icks n	.ot				
above enumerated, _	-	-	-	-	-	-	-	15	17
Same in Michigan,		-	-	-	-	13	61		
Aggregate length of tracks blon	ging	to th	is Co	mpan	y,				
computed as single track,	-	-	-	-	-	-	-	130	33
Same in Michigan,	-	-	-	-	-	122	71		
Gauge of track, 4 feet 81 inches.	•								

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

H. B. Ledyard, President, and D. A. Waterman, Secretary, of the Michigan Air Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, President. D. A. WATERMAN, Secretary.

Subscribed and sworn to before me this 16th day of March, A. D. 1888.

GEO. L. NADOLLEUT,

Notary Public, Wayne Co., Mich.

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#### ANNUAL REPORT

#### OF THE

# MICHIGAN MIDLAND & CANADA RAILROAD COMPANY,

For the Year ending December 31, 1887.

[ Filed April 10, 1888.]

President, JAMES TILLINGHAST, New York.

Secretary and Treasurer, CHARLES F. COX, New York.

Transfer Agent, LANDRETH H. KING, New York.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York.
WILLIAM K. VANDERBILT, New York.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York.
CHARLES F. COX, New York.
EDWIN D. WORCESTER, New York.
EDWARD A. WICKES, New York.
WILLIAM L. SCOTT, Erie, Pa.
CHAUNCEY M. DEPEW, New York.
Term expires June, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Sep	temb	er 17,	, 187	2.		
Number of stockholders at date of last election,	-	-	-	-	-	82
Number of stockholders in Michigan at same date,	-	-	-	-	-	4
Amount of full paid stock held in Michigan at same	date,	-	_	-	. •	420 shares
Date of annual meeting of stockholders,—First Thurs	day a	fter f	ìrst	Wedn	esda	ay in June.
Fiscal year of Company ends,—December 31.						
General offices of the Company are located at Detroi	t, Mic	chiga	n.			

#### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as part of the Canada Southern system, of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by	charter o	r arti	cles o	f ass	ociation,	-	\$100,000	00
Par value of shares,	-	-	100	00				
Average price received	per shar	е,	100	00				
No. of shares issued, _	•		3,0	000				
Amount paid in,	-	-	-	-	\$300,000	00		
Total amount paid	in, as p	er boo	ks of	the (	Company,	-	300,000	00
Paid in per mile of r pany,—Miles, 14.68,		ned b	y Co	om- -	<b>\$</b> 20 <b>,43</b> 5	96		

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage coupon bonds, dated July 1, 1073, and scrip	7 per cent	July 1, 1900. Int., July (and Jan'y.	New York	\$323,635 00
Total funded debt				<b>\$323,635 00</b>

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated,	Amount,
For construction		
For equipment		
For real estate (coal lands		
For renewals		 
For interest on bonds	No special provision	\$304,115 0
For current balances		34,260 44
Total unfunded debt		\$338,375 4

# RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	- -	-	-	\$323,635 338,375	
Total debt liabilities,	-	-	-	-	-	-	-	\$662,010	46
Amount of debt liabilities	per r	nile o	f roa	d,14	4.68 ı	niles,	-	45,096	08
Makal amount of skeals and	3.1.4	_						962,010	40
Total amount of stock and			- eo -	-:1	-	-	-		
Stock and debt per mile of	roau	,14	.00 п	11168,	-	-	-	65,532	04
I	nteres	t on t	he Fu	nded D	ebt.				
What is the amount of san	na dr	18 880	h vas	r.				\$22,610	00
Was it paid for the last yes			11 J 04	-,	•	-	-		No.
If interest is in default sta	te th	- A VARI	ra and	l amo	nnts	as fol	lows:	-	
1873,	100 011	o you.	D WILL	LWILLO	u110	40 101		4,025	00
1874,	•	•	•	-	-	-	-	9,765	
1875	-	-	•	-	-	•	•	20.300	
1875, 1876, 1877-8, each,	•	-	-	-	-	-	-	21,490	
1877-8, each, _	-	-	-	-	-	-	-	22,540	
	-	-	-	-	-	-	-	22,575	
1880-7, each, _	-	-	-	-	•	-	•	22,610	00
1000 1, 0001, 1	-	-	-	•	-	•	-	10.0,020	••
Total cost for Construction and	action	ı <b>.</b>	_	_	_	_	_	t by Compa \$586,342	
Average cost of construction	-		10 9	road,	not 1	actua	ıng	00.041	F 0
sidings,—14.68 miles,	-	-	. M:.	. :	-	-	-	39,941	
Proportion of cost of const No equipment.	ructi	on Io	r Mic	nigan.	, -	٠	-	486,342	02
. 1	DESC	RIPTI	ON C	F RO.	AD.				
Date when the road was op December 4, 1874, St. Cl	ened lair t	for u o Rid	so be gewa	tween y, Mic	its p higar	resent 1.	term	ini:	•
		MAI	N LI	TE.					
								Oths. Miles, 10	Oths
Length completed in Mich	igan,	-	-	-	-	-	14	68	
Total length complete	d,	-	-	-	-	-	-	. 14	68
Aggregate length of siding	a. ani	rs an	d oth	er tr	acks	not			
above enumerated, .	~, op	WIL		010	~~~				81
Same in Michigan,	-	•	-	-	-	-	-	81	
Aggregate length of tracks	- Lhelo	- nging	to t	his C	- nmna	nv.			
computed as single track		nging	,		Pa	J,		15	49
Same in Michigan,	-,	-	-	-	-	-	15	49	
Gauge of track, 4 feet 81 i	nche	3.	-	-	-	-	10		

STATE OF NEW YORK, COUNTY OF NEW YORK, Ss.

Charles F. Cox, Secretary and Treasurer of the Michigan, Midland & Canada Railroad Company, being duly sworn doth depose and say that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, C. F. COX, Secretary and Treasurer.

Subscribed and sworn to before me this 6th day of April, A. D. 1888. D. W. PARDEE,

Certificate filed in N. Y. county.

## ANNUAL REPORT

#### OF THE

# SAGINAW BAY & NORTHWESTERN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 19, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLER POND, Detroit, Mich. Sec., Treas. and Transfer Agent, D. A. WATERMAN, Detroit, Mich.

## DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
W. A. VAUGHAN, Bay City, Mich.
Elected January 6, 1885. No meeting of stockholders since that date.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 27, 1884.	
Number of stockholders at date of last election,	8
Number of stockholders in Michigan at same date,	7
Amount of full paid stock held in Michigan at same date,	\$1,200 00
Date of annual meeting of stockholders,—First Thursday after first Wednesda	y in May.
Fiscal year of Company ends December 31.	
General offices of the Company are located at Detroit, and Bay City, Mich.	

## REMARKS.

The stock is controlled and the road operated by the Michigan Central Railroad.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 Average price received per share, 100 00 No. of shares issued, 200	<b>\$3</b> 00,000 <b>0</b> 0
Amount paid in on common, \$200,000 00	
	4000 000 00
Total amount paid in as per books of the Company,	<b>\$</b> 200,000 00

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

None.

## UNFUNDED DEBT.

None.

## RECAPITULATION.

Total amount of stock and debt,	-	-	_	-	\$200,000 00
Stock and debt per mile of road,—85.52 m	iles,	-	-	-	2,338 63

## COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction, as per books of the Com-	
pany, Average cost per mile of road (not including sidings).—	<b>\$</b> 225,526 15
Average cost per mile of road (not including sidings),—	
85.52 miles,	2,637 12
Proportion of cost of construction for Michigan,	225,526 15

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: May, 1879.

	MAIN	I TIN	E.			-Miles, 10	Mtha	Miles T	Mthe
Length completed in Michigan,	-	-	-	-	- '	42		M1100. 1	
Total length completed,	-	-	-	-	-	-	_	42	71
				8					
	BRA	NCHE	8.						
Sundry branches from main l	ine in	to w	, aboo	-	-	42	81		
Total length of branches or	wned	by Co	mpan	y,	-	-	-	42	81
Total length of branches owner	d by (	Comp	any in	Mic	hi-	40			
gan, Total length of road belonging					-	42 -	81	85	52
Total length of road belongin Michigan,	_	-		_	_	85	52		
Aggregate length of sidings, a not above enumerated,	purs,	and -	other -	tra -	cks -	_	_		29
Same in Michigan, Aggregate length of tracks bel	- ongin	g to	this C	- lomn	anv.		29		
computed as single track, Same in Michigan,	-	-	-	- -	-	- 85	- R1	85	81
Gauge of track, 4 feet 81 inches		-	-	-	-	00	01		

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

Ashley Pond, President, and D. A. Waterman, Secretary, of the Saginaw Bay & Northwestern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best their knowledge and belief.

[L. S. OF R. R.]

Signed,

ASHLEY POND, D. A. WATERMAN.

Subscribed and sworn to before me this 7th day of March, A. D. 1888. GEO. L. NADOLLECT, Notary Public Wayne Co., Mich.

## ANNUAL REPORT

#### OF THE

# TOLEDO, CANADA SOUTHERN & DETROIT RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed April 10, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES

President, JAMES TILLINGHAST, New York.

Secretary and Treasurer, CHARLES F. COX, New York.

Transfer Agent, LANDRETH H. KING, New York.

## DIRECTORS.

CORNELIUS VANDERBILT, New York. WILLIAM K. VANDERBILT, New York. James Tillinghast, Buffalo, N. Y. SAMUEL F. BARGER, New York. CHARLES F. COX, New York. EDWIN D. WORGESTER, New York. EDWARD A. WICKES, New York. WILLIAM L. SCOTT, Erie, Pa. ALLYN COX, New York.

Terms expire June, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

## When chartered or articles of association filed:

Consolidation (July 19, 1872) of the Detroit & State Line R. R. Co. of Michigan and the Junction R'y Co. of Ohio.

1887.]	TOLEDO, CANADA SOUTHERN & DE	TROIT	RAI	LWA	Y CO.	145
Number	of stockholders at date of last election,	-	_	-	-	17
Number	of stockholders in Michigan at same date, _	-	-	-	-	None.
Amount	of full paid stock held in Michigan at same	date,	-	٠ -	-	None.
Date of a	nnual meeting of stockholders,—First Thurs	day aft	er fire	st We	dnesday	in June.
Fiscal ye	ar of Company ends,—December 31.					
General o	offices of the Company are located at Detroi	t, Mich				

#### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	<b>\$2,000,000 00</b>
Par value of shares, \$100 00	
Average price received per share, 100 00	
No. of shares issued, 15,476§	
Amount paid in on common, \$1,547,662 50	
Total amount paid in, as per books of the company,	1,547,662 50
Paid in per mile of road owned by Com-	
pany,—Miles, 55.87, \$27.701 13	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.		
First mortgage gold bonds, dated August 1, 1872. First mortgage bond scrip	7 per ct.	Jan. 1, 1908 +	New York	\$1,500,000 00 11,787 50		
Total funded debt						

<sup>\*</sup> Interest January and July.

## UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction	,	
		1
		1
Interest on bonds	No special provision	\$1,522,780 0
Total unfunded debt		\$1,776,430 5

## RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	-	\$1,511,737 1,776,430	
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$3,288,168</b>	08
Amount of debt liabilities per mile of road,-55,87 miles,								58,853	91
Total amount of stock and Stock and debt per mile of	debi	t, d,	-	<u>-</u>	<u>-</u> -	-	- -	\$4,835,830 86,555	
Interest on the Funded Debt.									

What is the an Was it paid for	the last	ear ?	-	_	-	-	-	-	\$105,000 00 No.
If interest is in	default st	ate t	he years	and	amou	nts a	s folle	W8:	•
1873,		_	-	-	-	_	_	-	52,780 00
1874 @ 1887	inclusive.	per a	nnum.	_	_		_		105,000 00

## COST OF ROAD AND EQUIPMENT,

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,	<b>\$3,084,389</b>	99
Average cost of construction per mile of road (not including		
sidings),—55.87 miles,	55,206	
Proportion of cost of construction for Michigan,—47.27 miles,	2,609,613	<b>62</b>

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: September 1, 1873, Springwells, Michigan to Toledo, Ohio.

#### MAIN LINE.

					Miles.1	00ths. B	files. 1	00ths.
Length completed in Michigan, .	-	-	_	-	47			
Length of road completed in Ohio,	-	-	-	-	8	60		
Total length completed,	-	-	-	-	-	-	55	87
Total length of road belonging to the Total length of road belonging to				- in	-	-	55	87
Michigan,	id oth	er tra	cks r	- not	47	27		
above enumerated,	-	-	-	_			36	31
Same in Michigan,		 	-	-	22	78		
Aggregate length of tracks belonging computed as single track,	to ti	118 C0	mpa	ıy,			92	18
Same in Michigan, Gauge of track, 4 feet 8½ inches.	-	-	-	-	70	05	J.	10

STATE OF NEW YORK, SS. COUNTY OF NEW YORK,

Charles F. Cox, Secretary and Treasurer of the Toledo, Canada Southern & Detroit Railway Company, being duly sworn, doth depose and say that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, C. F. COX, Secretary and Treasurer.

Subscribed and sworn to before me this 6th day of April, A. D. 1888,

[L. S.] D. W. PARDEE,

Notary Public, Kings Co., cert. filed in N. Y. Co.

## ANNUAL REPORT

#### OF THE

# MICHIGAN AIR LINE RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed March 30, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOSEPH HICKSON, Montreal. Vice President, A. B. MAYNARD, Romeo. Secretary, ROBT. WRIGHT, Montreal. Accountant, JAS. H. MUIR, Detroit. General Manager, W. J. SPICER, Detroit. Superintendent, A. B. ATWATER, Detroit. Chief Engineer, GEORGE MASSON, Detroit. Attorney, E. W. MEDDAUGH, Detroit.

## DIRECTORS.

JOSEPH HICKSON, Montreal. Ont.
A. B. MAYNARD. Romeo, Mich.
M. A. McNaughton, Jackson, Mich.
Jas. McMillan, Detroit, Mich.
E. W. Meddaugh, Detroit, Mich.

Terms expire September, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Nov	7embe	er 18,	1875	•		
Number of stockholders at date of last election,	-	-	-	-	-	
Number of stockholders in Michigan at same date.	_	_	_	_	_	

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Amount of full paid stock held in Michigan at same date, . . . . \$2,000 00 Date of annual meeting of stockholders,—Last Wednesday of September.

Fiscal year of Company ends,—December 31.

General offices of the Company are located at Detroit, Michigan.

## REMARKS.

This property is controlled and operated by the Grand Trunk Railway Company of Canada, and forms a portion of that corporation's system in the United States, and its operating management is the same as that of its other properties in the State of Michigan.—Com. of Railroads.

## GENERAL EXHIBIT.

			DEBIT.		CREDIT,	,
Total income, Total expenses, including taxes,	-	- <b>`</b>	\$127,062	61	<b>\$</b> 160,393	31
Net income,	-	-		-	\$33,330	70
Interest on funded debt,	-	-	<b>\$</b> 72,355	17		
Balance for the year (deficit),	-	-	\$39,024	47		
Items not included in above, as follo Contribution from G. T. R. towa est liabilities,		ter- -		-	39,024	47
·			\$39,024	47	\$39,024	47
AMALYSIS OF Amount authorized by charter or an Par value of shares,	ticles \$100	of a			<b>\$</b> 1,500,000	00
Total amount paid in as per boo	oks of	the	Company,	_	<b>\$300,000</b>	00
Paid in per mile of road owned pany,—miles, 105.59,	by C	om- -	<b>\$</b> 2,841	20		

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds £310,000, first January, 1883	5 per cent	{ 1st Jan. } 1903 }	London (half yearly)	\$1,508,666 67
Total funded debt				\$1,508,666 67

## UNFUNDED DEBT.

Amount.	Is the same to be Funded, or How Liquidated.	For what Incurred.
\$117 56		For construction
		For equipment
		For real estate
		For renewals
 		For miscellageous
88,567 84	<i>:</i>	
\$88,685 45		

	1	REOA:P	ITUL	ATION					
Total funded debt, - Total unfunded debt,	-	· _	- -	-	-	-	-	\$1,508,6 <b>6</b> 6 33,685	
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$1,542,352</b>	09
Amount of debt liabilities	per	mile	of ro	ad—1	05.59	miles	<b>,</b> -	14,605	60
Total amount of stock and Stock and debt per mile o	f ro	ad,	-	- -	-	-	-	1,842,352 17,446	
GEN	EKA	L BAI	LANC	E SHI	CET.—	DB.			
Construction account, Equipment account,	-	-	-	-	-	-	-	\$1,742,011 41,000	
Other assets:								\$1,783,011	05
Debit balances from conviduals,	n pai	nies s -	nd i	ndi- -	-	-	-	\$59,341	04
Total,	_		_	_	_	_	_	\$1,842,352	09

Total passenger earnings,

Proportion for Michigan,

Per train mile,

Per mile of road, .

**\$**39,248 37

19

372 02

**\$39,248 37** 

## FREIGHT EARNINGS.

Main line and	branc	hes:									
Local traffic,	_	_	_	_	_	_	<b>\$</b> 112,	807	42		
Through train	ffic,	-	-	-	-	-	8,	337	52		
Total traff	ic,	-	-	-	-	-	<b>\$</b> 121,	144	94		
Total freig	ht ea	rning	в,	-	-	-	-	-	-	<b>\$</b> 121,144	94
Proportion fo	or <b>M</b> i	chigar	1,	-	-	_	<b>\$</b> 121,	144	94		
Per train mil	le,	-	_	-	-	-			60		
Per train mil	road,	-	-	-	-	-	1,	148	<b>3</b> 0		
Total trans	porte	ation	earn	ings,	-	-	-	-	-	<b>\$</b> 160,393	31
Transportation Transportation	earı	nings nings	per per	mile train	of ro	ad,	<b>\$</b> 1,	520 0	32 79		
Total earn	ings 1	rom o	pera	tion o	f roa	d,	-	-	-	\$160,393	31
Total earnings	no= =	nile of	<b>#</b> 00	a			<b>\$</b> 1,	<b>K9</b> 0	20		
Total earnings	per L	mie or	.:1.	u, _	-	-	Ф1,				
Total earnings	per	10 00 m		. 4	W:-L:	<b>-</b>	100		79		
Proportion of	BEE	ie eari	iing	3 10r	Michi	gan,	100,	993	91		
Total taxable e		ıgs pe	rm:	rie or	road	ın	\$1.	520	32		
							• ,				
Total incom	me fr	om all	sou	rces,	-	-		-	-	<b>\$</b> 160,393	31
Proportion of i	ncon	e for	Mich	nigan,	-	<b>-</b> .	-	-	-	160,393	31
		A	NAI	LYSIS	OF E	XPEN	ISES.				
	CLA	ss 1.—	-Mai	rtenan	ce of	Way a	nd Buil	ding	8.		
Repairs of road	lwav :	and tr	ack.	_	_	_	_	_	_	\$24,403	02
Renewals of re	ils.	_	_	-	_	_	_	-		4,782	
Renewals of ti	AR.	_	_	-	-	_	_	-	-	4,293	
Repairs of brid		includ	lino	en lvei	ts an	d cattl	le onard	e Is	-	6,972	
Repairs of fend	igos, iga t	ned cr	nggin	our or	d eim	ne	io guaro	,		3,584	
Repairs of buil	din	Date OI	OBBIT	go, ar	ice pig	10,	-	-	•	3,090	
nepairs of buil	cringe	,	-	•	-	-	•	-	•		
Total,	-	-	-	-	-	-	-	-	-	\$47,126	44
·	CLASS	2.— <i>I</i>	laint	enance	of M	otive I	Power ar	ıd C	ars.		•
Repairs of loca	moti	<b>VOB</b> ,	-	-	_	-	_	_	_	\$6,042	66
Repairs of pass	enger	cars,	-	_	•	_	_	_	_	2,009	
Repairs of frei	ghť c	ars,	-	-	-	-	-	-	-	6,095	
Total,	-	-	-	-	•	-	-	-	-	\$14,147	02

2001.)					144111	3 11 22 3			•	-00
	CLAS	s 3.—	-Condi	ıcting	Trans	porta	tion.			
Fuel for locomotive	00	'							419 AGG	20
TT7 / 1		-	-	-	-	-	-	-	<b>\$13,026</b>	
Oil and waste,	-	-	-	-	-	-	-	-	1,218	
Locomotive service	. •	-	-	-	-	-	-	-	939	
Passenger train ser		-	-	-	-	-	-	-	15,242	
Passenger train sur	nnlies	-	-	-	-	-	-	-	3,434	
Freight train servi	bbires,	-	-	-	-	-	-	-	386 c oco	
Freight train suppl		-	-	-	-	-	-	-	6,868	
		+	-			- ۱	-	-	772	
Telegraph expenses	e enoim	LLENS.	ince an	ia ope	Fracin	g),	-	-•	1,987	
Damage and loss of	r rreigi	7 8 TI	or nas	gage,	-	-	-	-	. 1,175	
Damage to propert	-	Carrie		-	•	-	-	-	648	
Personal injuries,	-		-	-		-	-	-		63
Agents and station	Belaice	<del>)</del> , -	-	-	-	-	-	-	12,606	
Station supplies,	-	-	-	-	-	-	-	-	2,770	77
Total,	-	-	-	-	-	٠ -	-	-	\$61,162	61
			<b>3 4.</b> – 6		_					
Salaries of the gen	eral off	icers	of the	o.Com	pany,	-	_	-	<b>\$</b> 100	00
Salaries of clerks i	n gene	ral o	ffices,	-	_	-	-	_	300	00
Law expenses, .	-	-	_	-	_	-	_	-	400	00
Insurance,	-	-	-	_	-	-	_	-	722	69
Taxes,	-	-	-	_	<u>-</u> ·	-	-	_	3,103	85
Total,	-	-	-	-	-	-	-	-	<b>\$4</b> ,626	<b>54</b>
	RE	CAPIT	TLLUT	ION C	FEX	PENSI	. 85			•
							Per Ce Expe			
Maintenance of way	y and b	ouildi	ngs,	-	-	-		.09	\$47,126	
Maintenance of mo	tive po	wer a	ind ca	rs,	-	-		.13	14,147	
Conducting transpo	ortation	a,	-	-	-	-		3.14	61,162	
General expenses,	includi	ng ta	X08,	-	-	-		3.64	4,626	5 <b>4</b>
Total operating	g exper	ises a	nd ta	xes,	-	-	100	.00	<b>\$127,062</b>	61
Operating expenses Operating expenses for trains earning Proportion of ope	and t	axes ue,—	per to -202,6	rain r 09 mi	nile r les),	un,	\$1,20 <b>4</b> 0	40 63		
Michigan:							0 M O O O			
Main line,	-	-	-	-	-	_ 13	27,062	61		
Total proportion	on of e	xpen	ses for	Mich	nigan,	-	-	-	\$127,062	61



\$315 92 0 16

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Lenox to Jackson, September 1, 1884.

#### MAIN LINE.

T 201 311							Miles. 10	Oths.	Miles. 1	OOths.
In Michigan: From Lenox to Jackson,		-		-	-	-	105	59		
Total length complete	d,	-	-	-	-	-	-	_	105	59
Total length of road belong Total length of road belo						- in	-	-	105	<b>59</b>
Michigan, - Aggregate length in Mich	-	•	_			_	105	59		
other tracks not above e	nume	erated	١,		•	-`	6	95		
this Company, computed Gauge of track in Michigan	<b>as</b> si	ngle t	rack,	_ `	-	-	112	<b>54</b>		
aungo or orwar in mianigus	-,						Total M	iles.	In Mich	iran.
Total miles operated b	y the	Com	pany,	-	-	-	105			59
Number of	f <b>Bri</b> d	lges a	nd Tr	estles 1	in Mi	ich <b>i</b> ga	n.			
Wooden bridges, number of Wooden trestles, number of										265 330
Total,	. , .	70	- ;	-	-	-	-		6,	595
1	Draw I	Bridge	s in 1	<b>lichig</b>	ın.					
How many on your line?	-	-	-	-	-	-	-		No	ne

## Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Detroit & Bay City R. R., near Rochester.

Detroit, Grand Haven & Milwaukee R. R., at Pontiac.

Flint & Pere Marquette R. R., at Wixom.

Toledo. Ann Arbor & North Michigan R. R., at Hamburg.

Detroit, Lansing & Northern R. R., at South Lyon.

Jackson, Lansing & Saginaw R. R., near Jackson.

What railroads cross your road either over or under your grade in this State, and where?

None.

At what crossings are interlocking and derailing switches in operation?

None.

1887.]		місн	IGAN	AIR	LINE	RAII	WAY	co.		155
Number of crowhich there	ssing are ga	s of 1 tes o	highv r flag:	vays a men,	t grad	le in -	this -	State, -	-	131 1
Number of crossignals, _ Number of cr		_	_	-	_	_	_	-	-	None.
(over, 2; un				- · · · · · · · · · · ·	•	_		_		2
Number of hig			zes, 1	8 feet	above	trac	k,	_	-	ä
Number of hig	hway	bridg	ges, le	ess tha	n 18:	feet a	bove			None
Have safety-gu										No
Are your frogs			rails	block	ed as 1	equir	ed by	Act 1	.74,	
Session Law		•	-	-	-	- '	-	-	-	Y es.
How are they t			•.							
Filled with v	rood j	pl <b>an</b> k:	ıng.							
				St	ations	<b>.</b>				
Number of sta	tions	on .wł	ole li	ne.			_			20
Same in Michi		_	-	-	_	-	_	-	_	. 20
	<b>.</b> ,	_		_		_	-	-	_	
				En	nployé	8.				
Number of per	rsons	regul	arly e	employ	red or	all a	roads	opera	ted	
by Company,	, incl	ading	offic	ials,	_	_	_	٠.	-	173
Same in Michi			-	-	-	-	-	_	-	171
Classify your e	mploy	768 as	per f	lollowi	ng lis	it:				Number
Baggagemen,-	-train	, -	_	-	_	-	-	-	-	3
Brakemen, Conductors,	-	-	-	-	-	-	-	-	-	12
		-	-	-	-	-	-	-	-	7
Engineers,		-	-	-	-	-	-	-	-	11
	;:		٠, ,	-		-	-	-	-	10
Laborers, inclu	aing	80CT1C	n lat	orers,	-	-	-	-	-	80
Shopmen,	-	•	-	-	-	-	-	-	-	6
Yardmen,	-	-	-	-		-	-	-	-	43
Others,	-	-	-	-	-	-	-	•	-	
			REPA	IRS A	ND R	ENEW	ALS.			
			F	encing	in Mic	chigan	<b>.</b> .			
How many mil	es of	fancii	na ha	VA VOI	. ?					210
Give the number sides of your	ber of	i mile	98 Te	quired	to co					210
needed:	UL COUT	., 1	METOTIT	5 au, a	ITA ATI	.ฮ บบน	40109	.π ±π		1
noonou.	-	-	-	•	-	-	-	-		_
•			Re	oad Be	d and	Track	ċ.			
Number of tra-	ck sec	tions	in M	ichiga	n.	٠.	_	_	_	21
Average length					<del>,</del> -	-	-	-	-	5
Average numb					on ga	ng,	-	-	•	3
_					_					

156 MI	CHIGAN RAILI	ROAD RE	TURN	8.	[Dec. 81.
Number of new ties put i	n whole line d	uring the	Vear.		5,125
Number of new ties put			, <b>,</b> , , , , , , , , , , , , , , , , ,		5,125
Average number of new			_		49
New rails put in track: None.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-		
	Brdges and	l Culverts	•		
Amount of trestle work	replaced with	earth du	ring t	he year	
(linear feet),			-		None.
Timber culverts replaced	during the ye	ar, _	-		2
With iron pipe,—num	ber, •	. <u>.</u>	-		2
New bridges built during	the year,—nu	mber,	•		None.
	ROLLING	SILOUE			
	HOLLENG	STOCK.		Number.	Present Estimated Value,
Number of locomotives	of 20 to 30 to	ons weig	ht.		•
exclusive of tender,		· -	-	2	<b>\$14,000 00</b>
Total,	ang Q whool	 inalnd	- in «	2	<b>\$14,000</b> .00
Number of passenger official cars,	Cars—o-wheel	, includ	ıng	1	3,000 00
Number of express and l		-	-	1	· · · · · · · · · · · · · · · · · · ·
Number of box freight of	aggago cars, . ars	•	-	18	
Number of platform car		. <b>.</b>	-	4	
Total,			-	24	\$26,400 00
Number of locomotives e	nninned with n	ower bra	kes	1	•
Number of passenger-	train cars equ	ipped w	rith		
power brakes,		 :41		2	}
Number of freight ca	из ефитръес	with bo	wer	None.	
What patterns of power	hrakes have	 Vonin	- 186	740116	
and number of locome	tives and cars	with ea	ch?		
Westinghouse automa			<b>.</b>	:1	
Are your freight cars by Act No. 147, Session Yes.	on Laws of 188	35?	сошаь.	ic coupi	ers as reduited
What pattern or pattern		pted for	use?		
McCrea's patent coup	ner.				
	MILEAGE,	TRAFFIC	, etc.	•	
	Irain I	Mileage.			
Miles run by passenger	rains during t	he vear.	_		65,824
Miles run by freight tra			-		68,219
Miles run by mixed trai			-		68, <b>566</b>
Total mileage of tr	ains earning re	venue,	-	<b>.</b> .	202,609

## Passenger Traffic.

	1	Numbers a Quantitie	and	Miles.	Rate.
Number of through passengers carried,		& continue	93		
Number of local passengers carried,	-	78,8			
Total number of passengers carried	., <u>-</u>	78,6	331		
Total passenger mileage, or passengers c	arried	one mil	e.	1,158,909	
Average distance traveled by each passer		_	_	15	
Average amount received from each pas	ssenger	·, _	_		<b>\$0 40</b>
Average rate of fare per mile for through			_		02.29
Average rate of fare per mile for local p	assen	ers,	-		02.70
Average rate of fare per mile for all pas	senger	8, _	-		02 70
Freight !	Traffic.				
Number of tons of through freight	j				
carried,	9	9,696			
Number of tons of local freight carried,	222	,828			
Total tons of freight carried,	232	,524			
Total mileage of through freight,				1,083,065	
Total mileage of local freight,	-	•		1,006,566	
2000 1000 01 1000 100 100 1	-	-			•
Total freight mileage, or tons carrie	ed one	mile,	1	2,039,631	
Average ton haul for through freight,	_	-	_	106	
Average ton haul for local freight,	-	-	-	49	
Average ton haul for all freight,	-	-	-	52	
Average amount received for each ton	haul,	•	-		<b>52</b>
Average rate per ton per mile, received f	or thr	ough fr	eigh	ե,	00.81
Average rate per ton per mile, received	for loc	al freig	ht,		01.02
Average rate per ton per mile, received					01.01
		_			
The 2-14 do	362.12.	CAA.	·		
Freight forwarded at	мисту	an Stair	ons.		Forwarded, Tons.
Grain,	_	٠.	-		23,89 <b>9</b>
Flour,	_	-	-		14,606
Provisions (beef, pork, lard, etc.),	-	-	-		232
Animals,	_	-	-		3,017
Other agricultural products,	-	-	-	٠	14,892
Lumber and forest products,	-	-	-		34,407
Coal,	-	-	-		36,982
Plaster, lime and cement,	-	-	-		. 72
Salt,	•	-	-		282
Petroleum,	-	-	-		165
Railroad iron, iron and steel rails,	_	-	-		. 7·

								Forwarded.
								Tons.
Pig and bloom iron,	-	-	-	-	-	-		24
Other iron and castings,	-	-	-	-	-	-		328
Stone, brick and sand,	_	-	-	-	_	_		2,281
Manufactures,—articles sh								3,029
Merchandise and other ar	ticle	s not e	num	erated	above	θ, _		30,173
								<del></del>
Total forwarded,	-	-	-	-	-	-		164,396
Tonnage of	f At	ticles I	ransp	orted-	–Enti	re Roa	d.	
			-				Tons.	Per Cent.
Grain,	-	-	-	-	-	-	24,425	10. <b>50</b>
Flour,	-	-	_	_	-	-	15,135	6.51
Provisions (beef, pork, lar	d, e	tc.),	-	′ <u>-</u>	-	-	372	.17
Animals,	-	-	-	_	-	-	3,127	1.34
Other agricultural produc	ts,	-	-	_	-	-	15,142	6.51
Lumber and forest produc	ts,	-	-	-	-	-	42,986	<b>18.49</b>
Coal,	-	-	_	_	-	-	42,966	18.48
Plaster, lime and cement,	_	-	_	-	_	_	508	.22
Salt,	_	-	_	_	_	_	493	.21
Petroleum,	_		_	_	_	-	275	.12
Railroad iron, iron and sto	eel r	ails,	_	_	_	_	7	_
Pig and bloom iron,	-	_	_	_	_	_	70	.03
Other iron and castings,	-	_	_	-	_	_	698	.30
Stone, brick and sand,	-	_	_	-	_	_	2,870	1.23
Manufactures,—articles sh	ippe	ed from	m po	int of	prod	uc-		
tion,	-	_	•	-	-	_	9,388	4.04
Merchandise and other ar	ticle	s not	enum	erate	d abo	ve.	74,062	31.85
						´—		
Total tons carried,	-	-	-	-	-	-	232,524	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The Canadian Express Company.

Fifty per cent of their gross receipts.

Freights received at depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles, 105.59. Belongs to this Company.

## TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have

been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

None.

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

None.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

KILLED.

None.

#### INJURED.

February 18. C. Rice, brakeman, South Lyon, coupling, one finger crushed; his want of care.

March 9. E. Goodspeed, brakeman, Orchard Lake, struck by end of car, head cut and back hurt; his own carelessness.

April 29. F. Rice, brakeman, Pontiac, coupling, forefinger cut off; his want of care.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Passengers.		Others.	Passengers.	Employés.	Others.
				2	
1	!	i)		' 	
				1	
<b></b>					 
		<del></del>			

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	-	-	-	_
Number of persons injured during the year,		_	-	•	3
Number of casualties purely accidental,	-	-	-	-	
Number resulting from lack of caution care	lessne	8, OI	misc	on-	
duct,	_	-	_	_	3
Persons killed or injured while intoxicated,	-	-	_	_	
Trespassers and tramps killed or injured,	_	_	_	-	_
Spicides.	_	_	_	_	_

## CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1 -	8	8
Conductors			
Engineers			
Firemen		 	
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total		3	8

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

William J. Spicer, General Manager, and James H. Muir, accountant, of the Michigan Air Line Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. J. SPICER, JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D. 1888.

[L. S.]

JAS. McQUEEN, Jr.,

Notary Public Wayne Co., Mich.

## ANNUAL REPORT

#### OF THE

# CHICAGO, DETROIT & CANADA GRAND TRUNK JUNCTION RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed March 80, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOSEPH HICKSON, Montreal. Vice President, L. J. SEARGEANT, Montreal. Secretary, ROBT. WRIGHT, Montreal. Accountant, JAS. H. MUIR, Detroit. General Manager, W. J. SPICER, Detroit. Superintendent, A. B. ATWATER, Detroit. Chief Engineer, GEORGE MASSON, Detroit. Attorney, E. W. MEDDAUGH, Detroit.

## DIRECTORS.

JOSEPH HICKSON, Montreal.
L. J. SEARGEANT, Montreal.
JOHN BELL, Belleville.
E. W. MEDDAUGH, Detroit.
ROBT. WRIGHT, Montreal.

Term expires September, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,-Ma	rch	18,	1858.			
Number of stockholders at date of last election,		-	-	-	-	23
Number of stockholders in Michigan at same date,		_	-	-	-	1
21						

Amount of full paid stock held in Michigan at same date, \_ \_ \_ . \$100 00 Date of annual meeting of stockholders,—Last Wednesday of September.

Fiscal year of Company ends December 31.

General offices of the Company are located at Detroit, Mich.

## REMARKS.

This property is in charge of the operating management of the other lines controlled by the Grand Trunk Railway Company of Canada and forming a portion of its system in the State of Michigan. The Grand Trunk Company also assumes and makes good any deficiency that may exist in earnings to expenses and charges.—Com. OF RAILROADS.

G.	EN.	EK.	AL E	EXHIE	51T.	Dı	EBIT.		CREDIT.	
Total income,	8, .	 -	-			- <b>\$</b> 224,	.187	72	<b>\$</b> 250,455	6 <b>4</b>
Net income,		-	-	-	-	-	-	_	\$26,267	92
Interest on funded debt, six per Interest on stock, four per cen		cen	t., -	-	_	<b>\$</b> 65,	700 800		109,500	00
Balance for the year (defic	oit)	),	-	-		\$83,	232	08		_
ANAL	YS	es (	OF C	CAPIT	ΑL	STOC	K.		•	
Amount authorized by charter Par value of shares, No. of shares issued,			<b>\$</b> 10	0 00	<b>188</b> 0	ciatio	n,	-	<b>\$1,095,000</b>	00
Amount paid in on common,				-		<b>\$</b> 978,	984	67		
Total amount paid in, as ]	per	bo	oks	of th	e C	ompa	ny,	_	\$978,994	67
Paid in per mile of road ow pany,—miles, 59.37,	nec	1 t	о <b>у</b> С	om- -		<b>\$</b> 18,	,443	65		

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds, 1st July, 1864 Bond exchangeable for stock within ten years from June 26th, 1883	6 per cent 5 per cent		England	\$1,095,000 00 691,141 46
Total funded debt				\$1,786,141 46

## UNFUNDED DEBT.

None.

110110.										
			RECAP	ITUL	ATION	•				
Total funded deb	t, _	-	-,	~	-	-	-	-	\$1,786,141	46
Total debt lia	bilities,	-	-	-	-	-	-	-	\$1,786,141	46
Amount of debt l	iabilitie	s per	mile e	of roa	ad,—5	9.37	miles,	, -	30,085	00
Total amount of a Stock and debt pe				-	-	-	-	-	2,881,141 48,528	
	GEN	ERA	L BAL	ANC	E SHE	EET,-	Dr.			
Construction acco	unt,	-	-	-	-	<b>.</b> ,	-	-	\$2,765,126	13
Balance,	-	-	-	-	-	-	•	-	116,015	33
	GEN	ERA	L BAL	ANC	е ѕн	eet,—	Cr.			
	-	-	- -	-	-	-	-	-	\$1,095,000 1,786,141	
	COST	<b>OF</b>	ROAD	ANI	D EQT	JIPMI	ENT.			
Total Cost for Const	truction o	and I	Equipm	ent of	Road	and E	Branch	es Bu	uilt by Compa	ny.
Total expended for Average cost per i	or constr mile of	ucti road	on, (not i	nclud	- ling s	- iding	- 8)—59	3.37	<b>\$</b> 2,765,126	
miles,	-	-		-	-		•	-	46,574	
Proportion of cos (Equipment fur	t for Mi rnished	chig by tl	an, 10 lesse	- es.)	•	-	-	-	2,765,126	13

## ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Main line and branc	hes:									
Local fares,	_	_	_	_	-	_	_	_	\$77,540	55
Through fares,	-	-	-	-	-	-	-	-	44,533	
Total passenger	fares,	-	-	-	-	-	-	-	\$122,074	25
Express and bagg	age,	-	_	-	-	_	_		10,206	89
Mails,	-	-	-	-	-	-	-	-	8,311	89
Total passenger	earnin	ıgs,	-	-	-	-	-	-	<b>\$140,593</b>	03
Proportion for Mi	chigan	• •	-	-	-	<b>\$</b> 14	0,593	03 52		
Per train mile, Per mile of road,	•	-	-	•	-					
Per mile of road,		-	-	-	-		2,368	08		
		FRI	EIGH	T RAE	RNING	8.				
Main line and branc	hes:									
Local traffic,	-	-	-	-	-		8,649			
Through traffic,	-	-	-	-	-		0,394	29		
Total traffic,	-	-	•	-	-	\$10	9,043	50		
Total freight ea	rnings	,	-	-	-	-	-	-	<b>\$</b> 109,0 <b>43</b>	<b>50</b>
Proportion for Mich	igan,	_	-	-	-	<b>\$1</b> 0	9,043	50		
Per train mile,	•	-	-	_	-		0	40		
Per mile of road,	-	-	-	-	-		1,836	68		
Total transports	ation e	arnii	ıgs,	-	-	-	•	-	<b>\$249,636</b>	53
Transportation earn Transportation earn Miscellaneous receip other than for tra	ings po ts fron	er tra	in m ratin	ile, gacco	- ount,	•	<b>M,</b> 204	76 92		
From other sources,		-	, as . -	- 10110 #	-		819	11		
Total,	-	-	•	-	-	-		_	819	11
Total earnings from	opera	tion o	of ro	ad,	-	-	-	-	\$250,455	64
Total earnings per t Total earnings per t Proportion of taxab	rain m le earn	ile, ings	for l	- Michig	an,		4,218 0 60,455	92		
Total taxable earni Michigan,	- пав be	r <b>m</b> 1	- 16 01	. road -	-		4,218	56		
Total income fr	om all	sourc	es,	-	•	-	-	-	\$250,455	64
Proportion of incom	ne for l	Michi	gan,	-	-	-	-	-	250,455	64

## ANALYSIS OF EXPENSES.

## CLASS 1.—Maintenance of Way and Buildings.

Repairs of road	way a	nd tra	ack.	_	_	-	-	_	_	\$24,443	39
Renewals of rai		_			_	_	<b>-</b> ·		_	4,103	33
Renewals of ties		-	_	_	•	_				2,952	
Repairs of bridge	res in	olndi	na cu	lvorte	and a	ettle	oner	d a	_	4,062	
Repairs of fence	ges, m	d are	agin a	a and	and t		Sum	u.,	-	3,524	
Demains of Leilie	li.	iu cro	eern R	<b>э, а</b> шч	PIST	99	-	-	-		
Repairs of build	ungs,	-	-	-	-	-	-	•	-	7,526	OT
<b></b>									•		
Total,	-	-	-	-	-	-	-	-	•	<b>\$</b> 46,612	43
	CLASS	2.—1	<i>[ainte</i>	nance	of Mo	tive F	ower (	and C	ars.		
Repairs of locor	moti√e	98,	-	-	-	-	-	•	-	<b>\$</b> 23,348	
Repairs of passe	enger	Cars,	-	-	-	-	-	-	-	19,821	10
Repairs of freig	ht car	rs,	-	_	_	-	-	-	-	20,319	81
•	•	•									
Total,	_	_	_	_	_	_	_	_	_	\$63,489	17
_ ;,	-		_	_	-	-	_	_	_	•••,	
		CLASS	8.—0	Conduc	ting !	Transj	ortat	ion.			
T3 -1 4 . 1										A== 0= \	
Fuel for locome			-	•		-	•	-	-	\$15,352	
Water supply,	-	-	-	-	-	-	-	-	-	1,505	
Oil and waste,	-	-	-	-	-	-	-	-	-	1,051	<b>29</b> ·
Locomotive ser	vice,		-	-	-	-	•	_	_	24,515	73
Locomotive ser Passenger train Passenger train	Bervi	ce,		_	-	-	-	_	-	3,382	66 ·
Passenger train	suppl	ies.	-	-	_	-	_	_	_	864	<b>53</b> ·
Freight train s	ervice.			-		-	_	_	_	6,765	
Freight train a	nnnlie	ng.	_	_	-	_	_	_	-	1,729	
Freight train a Freight train a Mileage of freig	tht car	rg Pg	-	-	-	-	-	-	-	4,530	
Telegraph expe				- 	d one	- ratino	٠, -	-	-	5,425	
Damage and los	naca (	maint	Pand.	board.	a obe	auma	/)	-	-	1,168	
Damage and 10	88 ()I I	reign	b Milu	Dagg	age,	-	-	-	-		
Damages to pro	perty	and d	attie,	, -	-	-	-	-	-	437	
Personal injuri	es,		-	-	-	-	-	-	-	213	
Agents and stat	tion se	ervice	,	- '	-	-	-	-	-	26,214	
Station supplies	8,	-	-	-	-		-	-	-	6,369	50
										<del></del>	
Total,	-	-	-	-	-	-	-	-	-	\$99,527	68
		(	CLASS	4.— <i>G</i>	eneral	Expe	nses.				
Salaries of the	~^~~	al affi	20797 0	# the	Com					<b>\$1</b> ,000	00
					оощ	лацу,	-	-	-	<b>\$1,000</b>	
Salaries of cleri	ra iii §	Зепеся	и ош	ces,	-	-	-	-	-	2,000	
Law expenses,	-	-	-	-	-	-	-	-	-	1,500	
Insurance, Stationery and	<b></b> ,.	-	r	-		-	-	-	-	3,017	
Stationery and	printi	ng,		•	-	-	-	-	-	300	
Outside agencie	es and	adve	rtisin	g,	-	-	-	-	-	2,000	
Taxes,	-	-	-	-	-	-	-	-	-	4,740	91
Total,	_	-	-	-	-	-	-	-	•	\$14,558	44
=											-

## RECAPITULATION OF EXPENSES.

				Per Cent Expense		
Maintenance of way and buildings,	_		_	20.79	\$46,612	43
Maintenance of motive power and car	8,	_	_	28.3	63,489	17
Conducting transportation,	-	-	-	44.39		
General expenses, including taxes,	-	-	-	6.49	•	
Total operating expenses and taxe	8,	-	-	100.00	\$224,187	72
Operating expenses and taxes per road, Operating expenses and taxes per train	-	_		<b>\$3,776</b> 1	ι	
for trains earning revenue,—270,30%				0 89	3	
Total proportion of expenses for	Mich	igan,	-		\$224,187	72
Percentage of expenses to earnings,	-	89.	51			
Net earnings per mile of road,	_	-	_	<b>\$442 4</b> 8	5	
Net earnings per train mile,	-	-	-	0 10		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit Junction to Fort Gratiot, November, 1859.

MAIN LIN	E.			Miles, 100	bho M	11au 10	<b>O</b> rba
In Michigan: From Detroit Junction to Fort Gratiot,	-	-	-		37	1106, 10	ours.
Total length completed,	-	-	-	-	-	59	37
Total length of road belonging to this Comp Total length of road belonging to this Comp gan,	any in	Mich	_	5 <b>9</b>	37	59	37
Aggregate length in Michigan of sidings, sputracks not above enumerated, Aggregate length of tracks in Michigan	-	•	-	-	-	24	12
this Company, computed as single track Gauge of track 4 feet 8½ inches.		-	-	-	-	83	49
				Total Mi	les. In	Mich	igan.
Total miles operated by the Company,	-	-	-	59	37	59	37
Number of Bridges and Trest	tles in	Mich	iga	n.			
Iron bridges, number of, 6; aggregate	lengti	ı, fee	t,	-			924
Total, 6;	-	-	_	_			924

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## Draw Bridges in Michigan.

How many on your line? Where located, when built, and length of draw span: Near Port Huron, built same time as Railway, length of swing Character of structure: Swing draw. Material of which constructed: Iron and stone. Height above water, and depth of water under bridge: Sixteen feet from rail to water level. How swung, by engine or hand power? Hand power. Approaches, straight or curved? Straight. Do you require all trains to come to a full stop before crossing dra are they signaled? Rarely or never used for purposes of navigation.	·
Crossings-Railroad and Highway.	
What railroads cross your road at grade in this State, and at what Detroit, Grand Haven & Milwaukee R. R., at Detroit. Detroit & Bay City R. R., at Detroit. Chicago & Grand Trunk R. R., near Port Huron. Port Huron & Northwestern R. R., at Port Huron. Port Huron & Southwestern R. R., at Port Huron. What railroads cross your road either over or under your grade in and where? None. At what crossings are interlocking and derailing switches in opera None.	this State,
Number of crossings of highways at grade in this State,	90-
Number of crossings of highways at grade in this State, at	
which there are gates or flagmen,	1
Number of crossings at which there are electric or automatic	
Signals,	None.
Number of crossings of highways over or under railroad (over, —; under, —),	None.
Are your frogs and guard rails blocked as required by Act 174,	21020
Session Laws 1883?	Yes.
How are they treated?	
Filled with wood planking.	
Stations.	
Number of stations on whole line.	12
Same in Michigan,	12
Employés.	
Number of persons regularly employed on all roads operated by Company, including officials,	282
Same in Michigan,	279
	~

										<b>6</b>
Classify your e	mplo	yés as	per	follow	ing li	ist:				Number.
Dammamam										4
Baggagemen,	-	-	-	-	-	-	-	-	•	
Brakemen,	-	-	-	-	-	-	-	-	-	21
Conductors,	-	-	-	-	_	-	-		-	14
Engineers,	_		_		-	_				14
Firemen,										11
Laborora	-		-		•	•	-	-,	-	99
Laborers, _ Shopmen, _	-	-	•	-	-	-	-	-	-	12
onopmen, -	-	-	-	-	-	-	-	-	-	
Yardmen,	-	-	-	•	-	-	-	-	-	29
Others, -	-	-	-		_	-	-	-	-	<b>. 78</b>
Total,	-	-	-	-	•	-	-	-	<u>-</u> ·	282
			REPA	IRS A	ND E	ENEW	ALS.			
			F	encing	in M	ichigar	<b>.</b>			
How many mil Give the numb of your trace	er of	miles	requi	red to	comp	lete fe	nce b	oth si in wh	des	118.74
needed,	-	-	-	-	-	_	-	· <u>-</u>	-	None.
•		•								
			Re	oad Be	ed and	Trac	k.			
Number of tra	ick se	ections	in M	lichig	an.					13
Average length	of	postion	\0	nilas	,	-	-	_		4.50
						-	-	-	-	
Average numb	eroi	men	ın ea	on sec	mon 8	gang,	-	-	-	4
Number of ne	w ties	s put i	n Mp	ole lin	ie dui	ing th	ге дея	r,	-	4,505
Number of ne	w ties	s pat i	in tra	ck in	Mich	igan,	_	-	-	4,505
Average numb	er of	new t	ties p	er mil	e of	road,	_	_	_	76
New rails put				_	_		_	_	_	None.
Zion zama Par		,	_	-	_	-	-	-	•	
				Bridg	es and	d Culv	eris.			
Amount of tre		work r	eplac	ed wi	th ea	rth du	ıring	the y	ear	None.
Timber culver		leged :	- :	a tha	T00 **	-	-	-	-	110110.
										4 4
With iron p	rbe—	numbe	er,	-	-	-	-	-	-	14
With iron pi With sewer	pipe,-	—num	ber,	-	-	-	_	-	-	900 feet.
New bridges b	uilt d	luring	the	year,-	-num	ber,	-	-	-	None.
			F	COLLI	NG S	rock.				
The Compar the line belong	y do	es not the Gr	own and '	any ro Frunk	olling Rail	stock way C	. Th	ne stoo	k used Canad	l in working la.
Number of loce Number of pa								Ī	<b>1</b> 11.	
power brake		- 201-019	- MT ()	- - -	-	<del>o</del> u ₩. -	-	4	<b>M.</b>	

What patterns of power brakes have you in use, and number of locomotives and cars with each?

Westinghouse automatic.

1887.]

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?

What pattern or patterns have you adopted for use? McCrea's patent coupler.

## MILEAGE, TRAFFIC, ETC.

## TRAIN MILEAGE.

Miles run by passenger trains during the ye	ar		_	136,853
Miles run by freight trains during the year,			_	96,257
Miles run by mixed trains,	_	_	_	37,192
<b>22.100 102 07 22.200 02.0120,</b>	•		-	
Total mileage of trains earning revenue	e,		-	270,302
Passenger Tro	aff	ic.		
·		Numbers .		Rate.
		and Quantitie	8.	
Number of through passengers carried,	-	30,788		
Number of local passengers carried,	-	126,566		
Total number of passengers carried,		157,354		
•				
Total passenger mileage, or passengers carrie	ed	one mile,	4,768,215	
Average distance traveled by each passenger	r,		30	
Average amount received from each passeng	ζĐΙ	r,		\$0 77 <del>1</del>
Average rate of fare per mile for through p	pa:	ssengers, _	<u>.</u>	02.41
Average rate of fare per mile for local pass	en	gers.		02.66
Average rate of fare per mile for all passen	ge	rs,		02.56
		•		
Freight Traff	fic.	•		
Number of tons of through freight carried,		84,731		
Number of tons of local freight carried,		250,889		
_				
Total tons of freight carried,	-	335,620		
Total mileage of through freight,			4,993,572	
Total mileage of local freight,	-	-	5,700,503	
Topat inneake or local traiking	-		0,100,000	
Total freight mileage, or tons carried o	ne	mile,	10,694,075	
Average ton haul for through freight,			59	
Average ton haul for local freight,	-		23	
Average con had for local freight,	-		90	

32

Average ton haul for all freight,

170	AICHIGA	N RA	ILRO	AD R	ETUR.	ns.		[Dec. 81.
Average amount receiv	ved for e	acht	on ha	al,	<u>.</u>	. • .		<b>\$</b> 0 33
Average rate per ton pe	er mile,	receiv	ed for	thro	ugh fi	reight,		01
Average rate per ton p	er mile,	receiv	red for	r loca	l freig	ght,		01
Average rate per ton p	er mile,	recei	ved fo	or all	freigh	ıt,		01
•-					_			
<b>7</b> 0	-14 M	<b></b>	J4 7/	62 a <b>k</b> 2 a .	04	.49		
Ire	ight For	warae	a at M	ncnigo	an Sta	tions.		Forwarded, Tons.
Grain								29,805
Flour,	•	-	•	•	-	-		19,727
Provisions (beef, pork	lord o	to i	-	-	-	-		10,179
	, iaiu, o	ю. ,,	-	-	-	-		•
Animals, Other agricultural pro	dnota	-	-	-	-	-		5,807
			•	-	-	-	<del>.</del>	14,971
Lumber and forest pro	-	-	-	-	-	-		26,594
Coal, Plaster, lime and ceme		-	-	-	-	-		37,910
C 1.		-	-	-	<b>-</b> .	-		522
Salt,	•	-	-	-	-	-		239
Petroleum, Railroad iron, iron and		.,-	-	-	-	-	-, -	150
Railroad iron, iron and	steel r	al 18,	-	-	-	-		4,098
Pig and bloom iron, Other iron and casting	-	-	-	-	-	-		600
	8, _	-	-	-	-	-		
Ores,	-	-	-	-	•	-		
Stone, brick and sand,						-		3,991
Manufactures,—article	s shippe	d froi	n poi	nt of	produ	action,		17,177
Merchandise and other	articles	not e	nume	rated	above	θ,		40,662
Total forwarded,	-	•	-	-	-	-		212,432
Tonnao	e of Art	icles '	Transn	orted.	_Enti	re Roa	d	
100000	0 0j 2170		e i wiedp	or veu	131000	10 1000	Tons.	Per Cent.
Grain,	_	_	_	_	_	_	38,097	11.35
Flour,	_	_	-	_		-	25,640	7 64
Provisions (beef, pork,	lard, et	c.),		-	-	-	12,673	3.78
Animals,	, 00	J. ,,	-	-	-	-	8,294	
Other agricultural prod	Incta	-	-	-	-	•	23,433	6.98
Lumber and forest prod	Incte	-	-	-	-	-	29,514	
Coal.	auous,	-	-	-	-	-	51,551	
Plaster, lime and ceme	nt -	-	-	-	-	-	661	.21
		•	-	-	-	-	1,556	.46
	-	-	-	-	-	-		
Petroleum,		-	-	-	-	-	239	
Railroad iron, iron and	steer L	alig,	-	-	-	-	155 8 178	.05
Pig and bloom iron,		-	-	-	-	-	5,176	1.54
Other iron and castings	5, -	•	-	-	-	-	688	.20
Ores,	-	-	-	-	-	-	10.000	0 40
Stone, brick and sand,	1		<u>.</u> .			<b>-</b>	12,063	3.60
Manufactures,—article	a suibbe	a Iror	n poir	t of	prod	uc-	F4 F00	4= 0=
tion,		-	-	; .	·	-	51,593	15.37
Merchandise and other	articles	not e	nume	rated	above	€, -	74,287	22.13
Total tons carried,	-	•	- •	-	-		335,620	100.00

## 1887.]

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The Canadian Express Company. Fifty per cent of their gross receipts. Freights received at depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Miles, 59.37. Belongs to Montreal Telegraph Co.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

■ Pullman Palace Car Company's cars.

No rental paid.

Pullman Company maintain the cars and collect special fares.

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? None.

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

March 12. J. Knight, brakeman, Milwaukee Junction, fell from train; accidental; Company exonerated.

February 12. Geo. Davis, semaphore man, Fort Gratiot, found dead on track, supposed to have been run over; his own carelessness; Company exonerated.

October 20. Mrs. Mary Callahan, passenger, Detroit, jumped from train while in motion; her own carelessness; Company exonerated.

November 12. Thos. Cooper, trespasser, Port Huron, stealing ride and jumped from train while in motion; Company expnerated.

#### INJURED.

February 3. L. Button, yard brakeman, Fort Gratiot, coupling, two fingers crushed; his want of care.

February 19. W. Wilson, brakeman, Milwaukee Junction, fell from train,

knee sprained and head bruised; accidental.

March 29. G. C. Cloghesy, brakeman, Fort Gratiot, coupling, one finger crushed; his own carelessness.

May 10. E. Johnson, brakeman, Fort Gratiot, coupling, one finger crushed; his own carelessness.

June 14. Margaret Neshe, Milwaukee Junction, crossing track in front of train, knee cut and side injured; her own carelessness.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.			
Causes of Accident.	Passengers. Employés		Others.	Passengers.	Employés.	Others.	
Collisions							
Coupling cars					8		
Derailments						ļ	
Falling from trains		1			1		
Frogs							
Getting on and off trains	1						
Highway crossings	 					:	
Miscellaneous		1					
Overhead obstructions					]		
Trespassers on trains		 	1				
Trespassers on tracks							
Total	1	2	1		4	1	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year, -	-	-	-	4
Number of persons injured during the year,	_	-	_	5
Number of casualties purely accidental,	-	-	-	28
Number resulting from lack of caution, careles	saness	, or 1	nis-	
conduct,	-	_	-	6
Persons killed or injured while intoxicated,	-	-	-	_
Management and American hills and indicated				_
Trespassers and tramps killed or injured,	-	-	-	1

## 1887.]

## CLASSIFICATION OF EMPLOYÉS.

#### 'KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	4	(
Conductors			
Engineers			
Firemen			! }
Laborers			
Shopmen			
Yardmen	1		!
Not classified above			
Total	2	4	

STATE OF MICHIGAN, SS.

William J. Spicer, General Manager, and James H. Muir, accountant, of the Chicago, Detroit & Canada Grand Trunk Junction Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. J. SPICER, JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D. 1888.
[L. S.]

JAS. McQUEEN, JR.,

Notary Public, Wayne Co., Mich.

## ANNUAL REPORT

OF THE

# DETROIT, GRAND HAVEN & MILWAUKEE RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed March 30, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES..

President, JOSEPH HICKSON, Montreal.

Assistant to the President, CHARLES PERCY, Montreal.

Secretary and Treasurer, JAMES H. MUIR, Detroit.

General Manager, W. J. SPICER, Detroit.

Superintendent, A. B. ATWATER, Detroit.

Chief Engineer, GEORGE MASSON. Detroit.

Traffic Manager, GEORGE B. REEVE, Chicago.

General Counsel, E. W. MEDDAUGH, Detroit.

Solicitor, GEORGE JEROME, Detroit.

## DIRECTORS.

JOSEPH HICKSON, Montreal, Quebec. Hon. James F. Joy, Detroit, Mich. ELIJAH W. MEDDAUGH, Detroit, Mich. AARON B. MAYNARD, Detroit, Mich. GEORGE F. MOORE, Detroit, Mich. E. P. HANNAFORD, Montreal, Quebec. W. J. SPICER, Detroit, Mich. CHARLES STIFF, Hamilton, Ontario. JOSEPH HOBSON, Hamilton, Ontario.

Term expires first Monday in October, 1888, or when successors are elected!.

## STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Seventh March, 1834, as t	he Detroit
& Pontiac Railroad Company.	
Number of stockholders at date of last election,	14
Number of stockholders in Michigan at same date,	5
Amount of full paid stock held in Michigan at same date,	\$250 OO
Date of annual meeting of stockholders,—First Monday in October.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Detroit, Michigan.	

## GENERAL EXHIBIT.

		DE	BIT.	CREDIT.
Total income,	-	<b>\$</b> 863,615	92	<b>\$1,194,309</b> 38
Net income,	-		-	\$330,693 46
Interest on funded debt,	- -	319,300 32,233 6,922	34	
Less interest received on advances,	-	\$358,455 27,836		330,619 08
Balance applicable to dividends.	-		•_	<b>\$74</b> 38
Balance for the year,	-		-	<b>\$74</b> 38
Balance (profit and loss) last year,	-		-	45,453 61
Dividend (3 per cent) paid for the year Balance forward to next year,	1886,	<b>\$</b> 45,000 527		\$45,527 99
		\$45,527	99	\$45,527 99

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or	articles of association,	-	<b>\$1,500,000 00</b>
Par value of shares,	_ <b>\$</b> 50 00		
No. of shares issued,	_ 30,000		

Amount paid in on common,

\$1,500,000 00

Total amount paid in, as per books of the Company, . \$1,500,000 00

Paid in per mile of road owned by Company, 189 miles,

**\$7,936** 51

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount Outstanding.
	a her cone	Nov. 14,1918 Nov. 15,1918		\$2,000,000 00
Total funded debt		•••••		\$5,200,000 00

## UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		
For equipment		
For real estate		\$146,000 00
For renewals	b	
For miscellaneous		
		990,104 44
		\$1,186,104 4

## RECAPITULATION.

Total funded debt,	-		-	-	-	_	-	<b>\$5,200,000</b>	00
Total unfunded debt,	-	-	-	-	-	-	-	1,136,104	46
Total debt liabilities,	-	-	-	-	-	-	-	\$6,336,104	46
Amount of debt liabilities per mile of road,—189 miles,							-	33,524	36
Total amount of stock and	d del	b <b>t</b> ,	_	-	-	-		7,836,104	46
Stock and debt per mile of	f ros	d,	-	-	-	-	-	41,460	87

# GENERAL BALANCE SHEET,-DR.

Construction account, Equipment account, Other investments (specif	ying s	ame):	- 		<b>\$</b> 6,707,				
Land for enlarging stat	ion gr	ounds	at De	etroit,	, 154, ——	775	9 <b>4</b> —	<b>\$</b> 6,861,791	63
								Ψ0,001,731	00
Cash items:									
Cash, Due from agents,	-	-	-	-		904			
Due from agents,	-	-	-	-	39,	978	03	63,882	69
Other assets:					en.	W 4 4	40		
Materials and supplies, Debit balance from com	- nanio	- -	ndi <del>vi</del>	dnala	,50 200	660	40 10		
Deoit balance from com	Рапто	s and i	щит	IU UA16			<del></del>	962,404	67
Total,								\$7,888,079	10
10081,	-	-	-	-	-	-	-	Φ1,000,U19	19
	ERAI	BAL	ANCE	SHE	ET,—Ce	L			
Capital stock,	-	-	-	-	\$1,500,				
Funded debt,	-	-	-	-	5,200,	000	00		
							_	<b>\$</b> 6,700,000	00
Unfunded debt:		_		_					
Interest unpaid (accrue	d and	uncla	imed	),		528			
Notes payable,	-	-	-	-		000			
Vouchers and accounts, Other liabilities,—list as		-	-	-	785,	576	02		
Due on land purchased		8.			1/6	000	nn		
Due on land pulchased	•	-	•	-	140,		_	1,136,104	48
Renewal funds-rail, loco	motiv	e and	car.	_		_	_	51,446	
Profit or loss, or income a			-	•	•	_		527	
·		•							
Total,	-	-	-	-	-	-	-	<b>\$</b> 7,888,079	19
COST OF ROAD AND EQUIPMENT.									
Total Cost for Construction of	ınd Eq	uipme	nt of i	Road,	and Bra	nches	Bu	ilt by Compa	ny.

# Purchased by Iresent Company.

Total expended for construction and equipment, \_

Proportion of cost for Michigan,

miles), \_

Average cost per mile of road (not including sidings,—189

When purchased,—Fourth September, 1878, transferred by receiver 19th October, 1878.

Original cost to present Company, of road and equipment, \_ \$6,700,000 00

\$6,707,015 89

35,486 86

6,707,015 89

178	178 MICHIGAN RAILROAD RETURNS.								
Amount expended s	ince pu	rchase.	8000U1	nt of	constr	uction	1	<b>\$7,</b> 015	89
Total cost to date of							-, -	6,707,015	
Proportion of cost f	or Mich	igan	•	•	•	-	-	6,707,015	
110portion of cost 1	.01 11101	Barr,	-	-	•	•	•	•	00
CHARGES Al	ND CRE	di <b>t</b> s t	O PRO	PERT	V DUR	ING ?	ГНЕ	YEAR.	
		M	AIN LI	NE.					,
Sidings,			-	-	-	-	-	<b>\$7</b> ,015	89
Total charges to	proper	ty acco	ount as	abov	е, _	-	-	\$7,015	89
Net addition to prop	perty ac	count,	-	-	-	-	-	7,015	89
	AN	ALYSI	s of e	CARNI	NGS.	•		-	
	P	ASSEN	GER EA	RNIN	GS.				
Main line and branc	hes:								
Local fares,		_	_	_	_	_	_	\$449.977	08
Through fares,		- -	-	-	-	-	-	23,630	
Total passenger	fares, .		-	-	• '	-	-	\$473,607	93
Express and baggs	age.	_	_	_	_	_	_	29,125	10
Mails,			-	-	-	-	-	26,950	
Total passenger	earning	8, _	-	-	-	-	-	\$529,683	66
Proportion for Mi	chigan,	-	-		\$52	9,683	66		
Per train mile, Per mile of road,			-	-		_	01		
Per mile of road,		. <u>-</u>	-	-		2,802	56		
	FRI	IGHT :	Earnin	ras.					
Main line and branc	hea:								
Local traffic,	,1100.				<u> \$52</u>	5,798	50		
Through traffic,		· -	-	•		7,734			
THIONER MAIN,		-		-		.,.u <del>r</del> — —			
Total traffic,			-	-	\$65	3,532	67		
Total freight ea	rnings,	-	-	-	-	-	-	\$653,532	67
Proportion for Mic	chigan,		-	_	<b>\$</b> 65	3,532	67		
Per train mile,	• ·		-				28		
Per mile of road,		. <b>-</b>	-	-	;	3,457	84		

Total transportation earnings,

**\$1,183,216 33** 

1897,] DETROIT, GRAN	D HAV	en & M	IILWA	UKE	E RAII	.WA	AY CO.	L 79
Transportation earnings po Transportation earnings p Miscellaneous receipts from other than for transport	er train a operat ation, s	n mile, ting acc us follov	ount,	4	_	14		
From rentals of tracks o From other sources,	r termi	nals,	-		8,097 2,995			
Total,		-	-	-	-	-	<b>\$</b> 11,093	05
Total earnings from o	peration	n of ros	ıd,	-	-	-	\$1,194,309	38
Total earnings per mile of Total earnings per train m Proportion of earnings for Total earnings per mile of	ile, . Michi	gan, _	- - nigan,		6,319 1 94,309 6,319	15 38		
Total income from all	source	8, _	-	-	-	-	\$1,194,309	38
Proportion of income for	Michig	an, .	-	1,19	94,309	38		
<b>A</b>	NALYS	us of i	EXP <b>E</b> N	ises.	•	•		
CLASS 1.—	Mainten	sance of	Way (	and B	uilding	8.		
Repairs of roadway and tra			-	-	-	-	<b>\$72,111</b>	
Renewals of rails,		-	-	-	-	-	13,120	
Renewals of ties,			-	-	-	-	36,719	
Repairs of bridges, includi	ing culv	verts an	d catt	le gu	ards,	_	22,034	39
Repairs of fences, road cr	ossings.	and si	gns.	-	_	_	7,393	
Repairs of buildings,		,	6	-	_	-	20,404	
included of containings,		•	-	•	-	-	20,101	
Total,		•	-	-	-	-	\$171,784	47
CLASS 2.—M	aintenar	nce of M	lotive 1	Power	and C	ars.		
Repairs of locomotives,			-	-	-	•	\$47,179	
Repairs of passenger cars,		-	-	-	-	_	25,777	
Repairs of freight cars,		-	•	-	-	-	46,908	62
Total,		•	-	-	-	-	<b>\$</b> 119,865	74
Class	8.—Con	ducting	Trans	porta	ion.			
Fuel for locomotives, .		. <u>-</u>	-	•	-	-	\$88,420	
Water supply,			-	-	-	-	4,387	
Oil and waste,			-	-	-	-	6,832	
Locomotive service			-	-	-	_	85,822	02
Passenger train service,		_	_	_	_	_	26,482	22
Passenger train supplies,	-	<u>-</u>	_	_	_	-	4,800	00
Mileage of passenger cars,		•	•	-	-	-	3,349	
Trongo or happoned cure,			•	-	-	-	0,020	

180		MI	CHIGA	N RA	ILRO	AD R	ETUE	ens.		[Dec. 8	<b>B1.</b>
Freight train s	ervice	3.	_	_	_	_	_	_	_	<b>\$4</b> 0,136	61
Freight train			_	_	_	_	-	_	_	1,200	
Mileage of frei			_	_,	_	_	_	_	_	4,416	
Telegraph expe			ntenai	ice ar	go be	eratin	g).	_	_	21,000	
Damage and lo	ss of	freig	ht an	d bag	2826		-	_	_	3,113	
Damages to pr	opert	v and	cattl	e.	-	_	_	_	_	2,890	
Personal injuri		,	_	-,	_	_	_	_	_	6,024	
Agents and sta		ervic	θ	_	_	_	_	_	_	167,234	
Station supplie		_	-, -	_	_	_	_	_	_	24,812	
• •	-,	-	_	_	_	_	-	-	-		
Total,	•	•	•	-	-	-	•	-	-	<b>\$</b> 490,922	46
			CLASS	<b>4</b> G	enera	l Exp	en <b>s</b> es.			•	
Salaries of the	gene	ral of	ficers	of th	e Co	· mpan	٧.	_	_	\$4,800	00
Salaries of cler							, -	_	_	15,279	
Law expenses,		-	_		_		_	_	_	5,791	
Insurance,	_	_	_	_	_	_	_	_	_	5,314	
Stationery and	print	ing.	_	_	_	_	_	_	-	532	
Outside agencie			ertisin	ø.	_	_	_	_	_	18,032	
Contingencies,		_	_	-	_	_	_	_	_	5,856	
Taxes,	-	-	-	-	-	-	-	-	-	25,436	
Total,	-	-	-	-	-	-	-	-	-	\$81,043	25
		RE	CA PIT	ULATI	(ON (	OF EX	P <b>ENS</b>	Per	Cent penses.	٠	
Maintenance of	177077	and I	hnildi	naa					.89	\$171,784	ATY
Maintenance of					ra	-	-		.88	119,865	
Conducting tra	mor	tetio	D DAGT W	HU GA	10,	-	-		.85	490,922	
General expens	va ju mehon	oludi:	u, na toz	-	-	-	-		.38	81,043	
General expens	00, 111	CIUUI	ng vaz	100,	-	-	-				
Total oper	ating	exper	nses ai	nd tax	es,	-	1	100	.00	\$863,615	92
Operating expe	nses a	and to	axes 1	per tr	ain :	mile r	un,	<b>84</b> ,569			
for trains ear Proportion of Michigan:							for		83		
Main line,	-	-	-	-	-	-	- 8	63,615	92		
Total prop	ortion	of e	xpens	es for	Mic	higan	, -	-	-	\$863,615	92
Percentage of e Net earnings pe Net earnings pe	er mil	e of	road,		- -	72 • -	3.31 - •	1,749	70 32		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit to Grand Haven, 22d November, 1858.

MAIN LINE.								
In Michigan:	Miles, 100ths	. Miles, 100ths,						
From Detroit to Grand Haven,	189 00	•						
Total length completed,		189 00						
Total length of road belonging to this Company,  Total length of road belonging to this Company in		189 00						
Michigan,  Aggregate length in Michigan of sidings, spurs, and	189 00	1						
other tracks not above enumerated,  Aggregate length of tracks in Michigan belonging to	57 32							
this Company, computed as single track, Gauge of track in Michigan, 4 feet 8\frac{1}{2} inches.	246 32							
Cauge of Maca in Michigan, * 1000 of inches.	Total Miles	In Michigan.						
Total miles operated by the Company,	189 00							
Number of Bridges and Trestles in Michigan.								
Iron bridges, number of, 20; aggregate length, Wooden trestles, number of, 27; aggregate length,		3,021 3,352						
Total,	7	6,373						
Swing Bridges in Michigan.	•							
How many on your line? Where located, when built, and length of draw span: Near Ferrysburgh, one in 1869, two openings, 75 feet Near Ferrysburgh, one in 1870, two openings, 60 feet Character of structure: Truss.	- each. each.	2						
Material of which constructed:								
Height above water, and depth of water under bridge: 1869 bridge, height 12 feet, depth of water, 22 feet. 1870 bridge, height 12 feet, depth of water 16 feet. How swung, by engine or hand power?  Hand power.								
Approaches, straight or curved? Three straight, one curved. Do you require all trains to come to full stop before croare they signaled? Yes, and by distant semaphores.	ssing draw,	and how						

# Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Grand Trunk Railway, four miles west of Detroit. Detroit & Bay City R. R., four miles west of Detroit. Michigan Air Line R. R., one mile east of Pontiac. Flint & Pere Marquette R. R., at Holly. Chicago & Grand Trunk R'y, at Durand. Toledo, Ann Arbor & North Michigan R'y, at Durand. Jackson, Lansing & Saginaw R. R., at Owosso. Detroit, Lansing & Northern R. R., at Ionia. Lowell & Hastings R. R., at Lowell. Grand Rapids & Indiana R. R., at Grand Rapids. Chicago & West Michigan R'y, at Grand Rapids and Ferrysburgh. What railroads cross your road either over or under your grade in this State and where? Under grade: Muskegon, Grand Rapids & Indiana R. R., at Berlin.	,
At what crossings are interlocking and derailing switches in operation?	
None.	7
Number of crossings of highways at grade in this State, at	
None. Number of crossings of highways at grade in this State, 247 Number of crossings of highways at grade in this State, at which there are gates or flagmen, 25 Number of crossings at which there are electric or automatic signals, 25 None.	
	э.
Number of crossings of highways over or under railroad	
Have safety-guards been erected at over-head obstructions?	•
Yes, at all overhead bridges under 20 feet above rail.	
Are your frogs and guard rails blocked as required by Act 174,	
Session Laws 1883? Yes How are they treated?	3.
With Hart's patent safety attachment of wood-filling strips secured trails by bolts.	0
Stations.	
Number of stations on whole line, 3	7
	7
$Employ\'es$ .	
2.mp.cyco.	
Number of persons regularly employed on all roads operated	
by Company, including officials, 1,02	
Same in Michigan, 1,02 Classify your employés as per following list:	Ð
Number	er.
Baggagemen,	25
Brakemen.	52

•								
1887.] DETI	ROIT, GRA	ND H	AVEN & M	ILWAU	JKEE	RAIL	WAY CO.	183
								Number.
Conductors,		-	• •	-	-	-	-	32
Engineers,		-		-	-	-	-	44
Firemen,		-		-	-	-	-	42
Laborers, -		-		-	-	-	-	391
Snopmen,		-		-	-	- •	-	67 94
Firemen, Laborers, Shopmen, Yardmen, Others.		-		-	-	-	-	277
Others,		-		-	-	•	-	211
		REPA	IRS AND	RENEW	ALS.			
	,	F	encing in M	ichiga <sub>r</sub>	<b>.</b> .			
How many m	iles of fend	ing h	ve vou ?	_	_	_	_	385
Give the nun	ber of m	iles re	quired to	compl	ete fe	nce b	oth .	000
sides of you								
needed:		_	· -			-	_	None.
			•					
		R	oad Bed an	d Traci	k.			
Number of tra	sck section	s in M	lichigan.	_	_			37
Average lengt	th of section	ons (m	iles) _		•	-	-	5.1
Average num	ber of men	in eac	h section		_	_	-	4
Number of ne					e vea	r	_	114,749
Number of ne						_	-	114,749
Average num						_	-	607
New rails put	in track:	_		-				
Steel [tons					-	-	-	19.5
Total miles of	track lai	d with	new rails,	-	-	-	-	19.5
		E	Brdges and	Culvert	8.			
Amount of tr	estle work	replac	ed with ea	erth d	uring	the y	ear	
(linear feet)	),	-		-	-			o report.
Timber culve	rts replace	d duri	ng the year	, _	-	_	-	. 9
One replace	d with ire	n gird	ers and sto	ne abr	ıtmen	ts,	_	1
With timbe	r,—numb	er, _		_	-	-	-	8
New bridges	built durin	g the	year,—nun	iber :				
Two high	way overh	ead b	ridges we	re reb	uilt.	Five	wooden	bridges
renewed.	· ·		_					Ū
Locatio	on.		Kind.	T	Materia	 l.	Month built.	Feet in length.
Character at 1	Datasit	Pont 1		- XX7				
Congress street, I		1	ighway	l			July	66
Larned street, De	troit	Bent l	aighway	. Wood			July	66
Total								132

ROI	LIN	G S	CYT	CK

EOLLING BIOCE.		
	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight	ght,	
exclusive of tender,	. 14	\$70,000 00
Number of locomotives of 20 to 30 tons weigh	rht.	••••
exclusive of tender,	. 22	88,000 00
Number of locomotives of 10 to 20 tons weigh	rht.	00,000 00
exclusive of tender,	5	12,500 00
bactusive of school,	. 0	12,500 00
Total,	- 41	\$170,500 00
Total,		<b>4110,000 00</b>
Number of passenger cars—12-wheel, includ	ina	
parlor and official cars,	. 2	8,000 00
		0,000 00
Number of passenger cars—8-wheel, includ		
official cars,	_ 32	80,000 00
Number of express and baggage cars,	_ 11	16,500 00
Number of box freight cars,	_ 362	112.220 00
Number of stock cars,	_ 44	13,200 00
Number of platform cars,	_ 199	54,725 00
Number of conductors' way cars,	. 21	10,500 00
Other cars as follows:	. ~.	10,000 00
Auxiliary, 1, \$450	00	
Charcoal, 18, 6,300		
Furniture, 10, 3,500	00 29	10,250 00
(Mada)		490F 90F 00
Total,	_ 700	<b>\$</b> 305,395 00
Number of leaser stires equipped with names had	kes. 17	
Number of locomotives equipped with power brai		
Number of passenger-train cars equipped w		
power brakes,	_ 45	
Number of freight cars equipped with po-		
brakes,	- None.	
What patterns of power brakes have you in u	180,	
and number of locomotives and cars with ea		
Westinghouse automatic.		
Number of passenger cars with Miller, or other	her	
approved platform and buffer (state pattern)		
Miller.	45	
Are your freight cars being equipped with au		hariman na m
	containe conbies	s as required
by Act No. 147, Session Laws of 1885?		
Yes.	•	
What pattern or patterns have you adopted for	use?	
McCree's and Aikman.		

# MILEAGE, TRAFFIC, ETC.

# Irain Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	52 <b>4,554</b> 512,300
Total mileage of trains earning revenue.	_	_	_	1,036,854

# Passenger Traffic.

Number of through passengers carried, Number of local passengers carried, Total number of passengers carried	, <u>-</u>	7umbers at Quantities 5,04 593,58 598,68			Rate.
Total number of passengers carried	ـ ولما	000,00	טט		
Total passenger mileage, or passengers of Average distance traveled by each passe Average amount received from each passengers.	nger, Issenger	- ', -	32	375 3.05 -	<b>\$</b> 0 79
Average rate of fare per mile for throu Average rate of fare per mile for local pa- Average rate of fare per mile for all pa-	passeng	ers,	- ·-	-	02.48 02.47 02.47
Freight	Traffic.				
Number of tons of through freight		010			
carried,	524	,819 ,270 			
Total tons of freight carried,	664,	,089			
Total mileage of through freight, Total mileage of local freight,	. <u>-</u>		26,412, 28,050,		
Total freight mileage for tons carri	ed one r	nile,	54,463,	461	
Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,	- 		189 53.50 82.01		
Average amount received for each ton				-	<b>\$</b> 0 98
Average rate per ton per mile, received in Average rate per ton per mile, received	for thro	ugh freigh	gnt, _	-	00.45 01.91
Average rate per ton per mile, received	for all	freight.	υ, - -	-	01.20
<b>6</b>					
Freight forwarded at	Michiga	ın Statio	rs.		Forwarded,
0.1					Tons.
Grain,	•	•		-	84,532 24,549
Provisions (beef, pork, lard, etc.),	-	-		•	2,455
Animals,	· -	•		•	20,213
Other agricultural products,		•		-	24,883
Lumber and forest products,	_	-		-	145,352
Coal,	-	•		-	58,249
Plaster, lime and cement,	-	-		•	11,411
Salt,	•	•		-	3,405
Railroad iron, iron and steel rails, Pig and bloom iron,	-	•		-	2,805 11,904
Other iron and castings,	-	•		-	7,797
	_	_		_	.,

	MICHIGAN HAIDHOAD INTO HIS								
Ores, Stone, brick and sand Manufactures,—artic Merchandise and oth	les sh	ipped	- l from	- n poir	- nt of pre-	- rodu	- ction,		Forwarded, Tons. 230 6,158 37,232 97,547
Total forwarded,		-	_	_	-			• -	538,722
Tons	nage o	f Art	icles (	Transp	orted-	Enti	re Roa	<b>d.</b>	·
								Tons.	Per Cent.
Grain,	_	_		_	_	_	_	106,310	16.02
Flour,	-			-	_	_	_	100,362	
Provisions (beef, por	k, lar	d, et	c.),	_	_	_	_	3,469	
Animals,	_	_	<i>''</i> -	_	_	_	_	20,213	
Other agricultural pr	oduci	te,	_	_	-	_	-	26,615	
Lumber and forest p			_	-	_	_	_	145,399	
Coal,	-	_	_	_	_	_	_	58,249	
Plaster, lime and cen	aent,	-	_	_	-	_	_	11.411	
Salt,	_	_	-	_	_	_	_	3,405	
Railroad iron, iron as	nd ste	el ra	ils,	_	-	_	-	3,619	
Pig and bloom iron,	_	_	_	_	-	_	_	11,946	
Other iron and castin		_	_	_	_	_	_	7,856	
Ores,	-	_	_	_	-	_		1,268	
Stone, brick and san	d,	_	_	_	_	_	_	6,158	.93-
Manufactures, -artic	les sh	ippe	d fro	m po	int of	prod	luc-		
tion	_	-	_		_		_	39,320	5.92
Merchandise and other	er ar	ticles	not	enun	ne <b>rate</b> d	abo	ove,	118,489	
Total tons carrie	d,		_	-	-	_	-	664,089	100.00

## ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company has exclusive right for passenger trains, and pays \$50 per day for not exceeding 5,000 lbs. per day, and 60 cents per 100-lbs. excess, carrying light freight, money, etc., and taking freight to and from depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

189 miles of single wire belonging to the Western Union Telegraph Company, using the Railway Company's poles. A second wire 46½ miles long of same Telegraph Company, with poles, runs between Detroit and Holly.

## TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York, \_ \_ \_ \$3,182 84

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Ames Palace Horse Car Company, Toledo,	_	-	<b>\$32</b> 10
Ayers, A. A. & Co., Montreal,	-	_	47
Armour & Co., Chicago,		_	4 69
American Refrigerator Transportation Company, St. Louis,	_	-	9 54
Anglo-American Provision Company, Chicago,	_	_	5 28
Bull, J. G., Philadelphia,	_	_	2 36
Commercial Express Line (Tiffany), Buffalo,	_	_	44 24
Cutler & Savage Lumber Line, Spring Lake,	_	_	1 37
Chicago, Boston & Liverpool, St. Albans, Vt.,	_	_	179 42
D. G. H. & M. Special Blue Line, per W. K. Muir, Detroit,	-	-	64 07
Ellsworth, J. W., Chicago,	-	-	3 74
Kansas City Dressed Beef Line, Kansas City, Mo.,	-	-	1 85
Lackawanna Line, Buffalo,	•	-	17 63
Merchants' Despatch Transportation Company, New York,	-	-	2,067 11
Menasha Wooden Ware Company, Chicago,	•	-	1 27
Morris, Nelson & Co., Chicago,	•	-	3 78
National Car Company, St. Albans, Vt.,	-	-	8,715 12
Parker, D. W., Kalamazoo,	-	-	49
Racine Wagon & Carriage Company, Milwaukee,	-	•	97
Rogers' Locomotive Works, New York,	-	-	3 53
Swift's Refrigerator Line, Chicago,	-	-	87 31
Swift's Refrigerators (N. D.), St. Albans, Vt.,	-	-	9 85
Street's Stable Car Line, Buffalo,	-	-	20 80
	-	-	1 00
Sheboygan Manufacturing Company, Chicago,	-	-	37 96
Union Tank Line, New York,	-	-	-
United States Transportation Company, Chicago,	-	-	5 28
Walker E. C., Detroit,	-	-	93 62

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

March 31. M. Bishop, trespasser, Ovid, stealing ride; Company exonerated. July 11. Mrs. Hearn, Lake Shore Junction, Detroit, highway collision; her own carelessness; Company exonerated.

August 13, P. D. Kenny, yard conductor, Detroit, slipped while riding on

breakbeam; his own carelessness; Company exonerated.

October 13. Miss A. Sukouski, Grand Rapids, highway collision; accidental; Company said to be to blame; engineer's evidence was he did not see the child.

December 7, E. Sunderland, trespasser, Lake Shore Junction, Detroit, jumped from train; his own carelessness; Company exonerated.

#### INJURED.

January 20. E. Childs, brakeman, Birmingham, coupling, arm squeezed; his own carelessness.

February 1. D. Karrer, brakeman, Holly, coupling, fingers crushed; carelessness.

February 21. W. G. Jack, Ionia, highway collision, arm broken; intoxicated.

March 21. C. Fitzgerald, trespasser, Detroit, stealing ride, right arm crushed.

April 13. R. Little, brakeman, Holly, coupling, fingers crushed; his own carelessness.

July 7. F. Howe, brakeman, St. Johns, coupling, fingers crushed; his own carelessness.

August 9. N. McSweeney, trespasser, Detroit, crawling under car, foot crushed.

August 12. F. Housan, switchman, Lake Shore Junction, Detroit, coupling, fingers crushed; his own carelessness.

November 1. A. B. Rogers, express agent, Pewamo, crossing in front of train, arm broken; carelessness.

November 2. J. T. McKay, brakeman, Vernon, fell into cattle guard, leg broken; accidental.

November 30. S. Hobin, brakeman, Detroit, stepped in front of engine, leg crushed; his own carelessness.

December 28. J. McLarty, brakeman, Milwaukee Junction, coupling, fingers crushed; carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.	<del></del>		Injured.	
Causes of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars					6	
Derailments						
Falling from trains		1	1			
Frogs						
Getting on and off trains						 
Highway crossings	ľ		8			,
Miscellaneous	I .	•			2	
Overhead obstructions	l .	l		 		
Trespassers on trains			1			
Trespassers on tracks					 	1
Total		1	4		8	-
SUMMA	RY OF	ACCIDEN	TS IN M	ICHIGAN	Γ.	
Number of persons killed	during	the vear.	_			
Number of persons injur						12
Number of casualties pur				-		2
Number resulting from	lack of o	caution,	carelessn	888, of n	iscon-	
duct,	•					14
Persons killed or injured				-		]
Trespassers and tramps k	tilled or	injured,				4
Suicides,		-				-

# CLASSIFICATION OF EMPLOYÉS. KILLED OB INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		7	7
Conductors	1		1
Engineers			
Firemen			
Laborers			
Shopmen			
Yardmen		1	1
Not classified above			
Total	1	8	•

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

W. J. Spicer, General Manager, and James H. Muir, Secretary and Treasurer, of the Detroit, Grand Haven & Milwaukee Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. J. SPICER, JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D. 1888.

[L. S.]

JAS. McQUEEN, Jr.,

Notary Public Wayne Co., Mich.

## ANNUAL REPORT

#### OF THE

# CHICAGO & GRAND TRUNK RAILWAY COMPANY.

For the Year ending December 31, 1887.

[Filed March 80, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOSEPH HICKSON, Montreal, Que.

Vice President, L. J. SEARGEANT, Montreal, Que.

Ass't to President and Secretary, CHAS. PERCY, Montreal, Que.

Treasurer, JAS. H. MUIR, Detroit, Mich.

General Manager, W. J. SPICER, Detroit, Mich.

Superintendent, A. B. ATWATER, Detroit, Mich.

Assistant Superintendent, W. J. MORGAN, Battle Creek, Mich.

Chief Engineer, GEORGE MASSON, Detroit, Mich.

Traffic Manager, GEO. B. REEVE, Chicago, Ill.

Gen. Pass. and Ticket Agent, W. E. DAVIS, Chicago, Ill.

Assistant Gen. Freight Agents:

JOHN MAIN, Detroit, Mich.

DAVID BROWN, Chicago, Ill.

Attorney, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

JOSEPH HICKSON, Montreal, Que.
L. J. SEARGEANT, Montreal, Que.
ROBT, WRIGHT, Montreal, Que.
E. W. MEDDAUGH, Detroit, Mich.
JAS. McMillan, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
W. C. BEARDSLEY, Auburn, N. Y.

W. S. SHEPARD, Bath N. Y.

F. A. Howe, Chicago, Ill.

J. H. WHITMAN, Chicago, Ill.

W. MUNRO, Chicago, III.

A. H. DOLTON, Chicago, Ill.

JOHN McCAFFERY, Chicago, Ill.

DE. F. SKINNER, Valparaiso, Ind.

W. T. MITCHELL, St. Hyacinthe, Que.

Terms expire March 14, 1888, or when their successors are elected.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—April 7, 1880.	
Number of stockholders at date of last election,	288
Number of stockholders in Michigan at same date,	15
Amount of full paid stock held in Michigan at same date,	85,500 00
Date of annual meeting of stockholders,—Second Wednesday in March.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Detroit and Chicago.	

## GENERAL EXHIBIT.

				DEBIT.		CREDIT.
Total income,	-	-	. <del>-</del>	\$2,515,384	76	<b>\$3,478,696 20</b>
Net income,	-	-	-		-	<b>\$</b> 963,311 <b>44</b>
Interest on funded debt,	_	_	_	<b>\$</b> 738,738	<b>4</b> 0	
Interest on unfunded debt.		_	_	28,857		
Rentals of buildings, tracks, etc.	3	_	_	106,011	92	
Rentals of cars,	,	_		89,626		
	-	•	_		_	963,234 16
Balance for the year,	-	•	-		-	\$77 28
Balance forward to next year,	-	-	-	77	28	
				\$77	28	\$77 28

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$</b> 6,600,000	00
No. of shares issued, 66,000		
Amount paid in on common, \$6,600,000 00		
Total amount paid in as per books of the Company,	<b>\$</b> 6,600,000	00

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds	6 per cent 5 per cent	Jan. 1, 1900 Jan. 1, 1923	London, Eng., and New Y'rk New York	\$6,000,000 00 6,000,000 00
Total funded debt	,			\$12,000,000 00

## UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		1
For equipment		
For real estate		
For renewals		\$941,886 1
For miscellaneous		
For current balances		]
Total unfunded debt		\$941,886 10

## RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-		-	\$12,000,000 00 941,386 16
Total debt liabilities.	-	-	-	-	-	-	-	\$12,941,386 16
Amount of debt liabilities	per	mile o	f ro	ad—33	0.50	miles,	-	39,157 00
Total amount of stock and Stock and debt per mile o				_ miles)		-	-	19,541,386 16 59,157 00

# GENERAL BALANCE SHEET.-DB.

Construction ac Equipment according to the Cash items:		-	-	- -	-	-	-	}	<b>\$</b> 18,535,7 <b>4</b> 6	25-
Cash,		•	-	-	-	-	-	-	148,608	47
Other assets: Materials and Sundry assets	3, _	-		-	-	162	1,949 2,486	66		
Debit balance Securities in	s from co hand.	mpani	es and	indi <sup>.</sup>	vidua		,672 ,000			
	,		_	-	_				857,108	72
Total,	-	-	-	-	-	-	-	-	\$19,54 ,463	44
	GE	NERA	L BAI	ANCE	SHI	eet,—c	B.			
Capital stock,		_	_	-	_	<b>\$</b> 6,600				
Funded debt,		•	-	-	•	12,000	,000		<b>\$18,600,000</b>	00
Unfunded debt Interest unps		ble Jai	nnarv	1. 188	88).	<b>\$</b> 238	,071	78		
Notes payable	θ, _	_	-	-	-		537	<b>5</b> 0		
Vouchers and		-	-	-	-	702	2,776 		941,386	
Profit and loss	or incom	e acco	ants,	-	-	-	-	-	77	28
Total,		-	-	-	-	-	,_	-	<b>\$19,541,463</b>	44
	CO	om om	DO AT		TOT	TTDMEN	m			
					_	JIPMEN				
Total Cost for Co	mstruction	n and L	iquipm	ent of	Koad	and Br	anche	38 <i>B</i>	uilt by Compa	ny.
Total expended Average cost of	f per mil	tructic e of r	on and	equip ot in	pmen clud	t, _ ing sid	- ings)	<u>-</u>	<b>\$</b> 18, <b>5</b> 35, <b>7</b> 46	
330.50 miles, Proportion of		Lichiga	an,	-	-	-	-	-	56,083 12,561,675	
-	j	Purcha	sed by	Prese	nt Co	mpany.		٠		
When purchase			_							
Original cost to	present	Comp	any, o	f road	l and	l equip	ment	, -	\$12,889,800	78
Amount expend	uea since led since	purch	1850, & 1850, &	ccoun ccoun	t of	constru equipm	ction ent.	, - -	3,952,397 1,693,548	47 00
Total cost to d Proportion of	ate of re	port,	-	•	•		-	-	18,535,746	25
TIODOLFOUR OF	COBO TOT T	Trouig	, 110	-	-	-	-	-	12,764,985	wo.

# CHARGES AND CREDITS DURING THE YEAR.

# MAIN LINE.

Extensions,	-	-	-	-	-		-	-	-	<b>\$</b> 70,390	
New buildings,	-	-	-	-	-	_	_	-	-	6,334	
New cars,	•	-	-	-	-	-	-	-	-	71,415	00
Total,	-	-	-	-	-	-	-	-	-	\$148,139	55
Discount on sal	e of 1	st mo	rtga	ge bo	nds,	•	-	-	-	11,805	24
Total char	ges to	prope	erty	accou	nt as	above	) <b>,</b> _	-	-	\$159,944	79
Property sold a	nd or	hatific								300,000	00
Net credit to ca	pital,	Jaroca	, -	-	-	-	-	-	-	140,055	
		1	ANA	L¥SIS	of E	EARNI	NGS.				
			PAS	SENG	ER EA	RNIN	GS.				
Main line and h	ranch	.08:									
Local fares,	_	_	_	-	_	_	-	-	_	\$413,747	56
Through fare	8,	-	-	-	-	-	-	-	-	543,269	
Total passe	nger i	ares,	-	-	-	-	-	-	-	<b>\$957,017</b>	41
Express and	bagga	ge,	-	-	-	_	-	-	-	49,012	
Mails, .	•	-	-	-	-	-	-	-	-	25,537	06
Total passe	nger	earnin	ıgs,	-	-	-	-	-	-	\$1,031,557	37
Proportion fo	or Mi	chigar	ı,	_	_	_	<b>\$</b> 68	1,103	26		
Per train mil	е,		_	-	-	-		1	11		
Per mile of	road,	-	-	•	-	-		3,040	61		
			<b>777</b> 0	ni a Tir		NING					
Main line and l	ronal		FK	EIGH.	LAAD	MING	<b>D.</b>				
Local traffic,							\$60	9,081	43		
Through trai	fic,	-	-	-	-	-		5,851			
Total traffi	c,	-	-	-	-	-	\$2,44	4,932	83		
Total freig	ht ear	rnings	,	-	-	-	-	-	-	2,444,932	03
Proportion fo	or Mic	higan	١,	-	-		<b>\$1,61</b>	4,292	74		
Per train mil	le,	•	•	_	-	_	- , -	1			
Per mile of	oad,	-	-	-	-	-		7,206			
Total trans	porta	tion e	arni	ngs,	-	-	-	-	-	\$3,476,500	20

196 MIC	HIGAN	RAI	LROA	D RE	TURN	8.		[Dec. 8	B1.
Transportation earnings Transportation earnings Miscellaneous receipts from other than for transpor From rentals of tracks or From other sources,	per to m opera tation,	rain sting as fo	mile, accou llows	int,		996 1,200	14 00	<b>\$</b> 2,196	00
Total earnings from o	peratio	n of	road	,	-	-	-	<b>\$3,478,696</b>	20
Total earnings per mile of Total earnings per train n Proportion of taxable earn	ile.	_	_	- -		1	14		
Total taxable earnings po Michigan,—224,	er mile	of :	road	in		,253			
Total income from al			-	-		-	_	\$3,478,696	20
Proportion of income for	Michig	an,		-	-	-	-	2,296,845	91
Repairs of roadway and tr Renewals of rails, _ Renewals of ties, _ Repairs of bridges, include Repairs of fences, road or Repairs of buildings,	ack, ling cu	- - lvert , and	- - <b>s an</b> d	- cattle	- - - guar	-	- }	\$189,071 95,500 24,421 8,466 42,359	29 97 65
Total,	-	_	-	-	-	-	•	\$359,818	
CLASS 2.—A	<b>Lainten</b>	ince (	of Mo	tive Pa	ower a	nd C	ars.		
Repairs of locomotives, Repairs of passenger cars, Repairs of freight cars,	-	- -	- -	-		-	-	\$155,757 69,500 129,211	06
Total,	- <b>·</b>	-	-	-	-	-	-	\$354,469	27
CLAS	s 8.— <i>C</i> c	mduc	ting !	Transp	ortati	on.			
Fuel for locomotives, - Water supply, - Oil and waste, - Locomotive service, - Passenger train service,	- - -	- - -	- - -	-	- - -		-	\$308,643 14,870 32,313 269,299 63,342	61 43 01
Passenger train supplies, Mileage of passenger cars	-	-	-	-	-		-	7,575 50,020	50

1887.]	CHICAGO	& GR.	AND	TRUN	K RA	ILWAY	CO.	1	197
Freight train se	-rico							<b>\$</b> 316,070	KΛ
Freight train su		-	•	-	•		-	15,151	
Mileage of freig		-	-	•	•	- •	-	168,070	
Telegraph expen			and	oners	ting\		-	61,333	
Damage and loss					,,,,,		•	17,500	
Damages to prop	perty and o	ettle	Dags.	ago,	-		-	1,045	
				•	-		-	50,491	
Personal injuries Agents and stati	on service.	-	-	-	-		-	122,666	
Station supplies,	-			•			-	12,953	
common supprison,	-	•		-	-		-		
Total,		-	-	•	-		-	<b>\$</b> 1,511,345	78
	C	LASS 4.	Ge	neral E	expens	<b>168</b> .			
Salarias of the s	omeral effe	20mm of	tha f	Jampa	n.,			<b>\$</b> 92 190	21
Salaries of the g				ошра	iity,		-	\$23,129 17,056	
Salaries of clerk		ы още	өв,	-	-		-	13,607	
Law expenses, Insurance, _		-	-	-	-		-	7,607	
0	rinting		-	-	•		-	27,164	
Outside agencies	and adver	- rtisino	-	•	•	-	-	70,353	
Contingencies,	and date	- -	,		•	<u> </u>	-	13,858	
Taxes,	 	-	-		_		-	116,972	
Total,		-	-	-	-	- <b>-</b>	-	\$289,750	73.
	REC	APITUI	LATIO	N OF	EXPE	nses.			
36 14		••••				E	Cent of xpenses.	<b>40</b> 70 010	00
Maintenance of				-	-		14.30		
Maintenance of			•	l <b>.</b>	-		14.09	354,469	
Conducting tran General expense	sportation,	, 4	-	-	-	-	60.09	1,511,345	
Gederai exbense	s, includin	g taxe	8,	-	-	-	11.52	289,750	75
Total opera	ting expens	ses and	l taxe	8,	-	. 1	00.00	\$2,515,384	76
Operating expen	ses and ta	xes per	miler tra	of ro	ad,	. <b>87,</b> 4	14 33		
for trains earn Proportion of Michigan:	ning revent	ae,—3,	054,9	971 mi	les),	-	0 82	·	
Main line,		-	-	-	-	1,634,9	55 01		
Total propo	rtion of ex	penses	for l	Michig	an,		-	<b>\$</b> 1,634,955	. 01
Percentage of ex	penses to	arnin	28.	-	72.8	31			
Net earnings pe			o~, •	_	-		39 50		
Net earnings pe			•	•	•	-	0 32		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Port Huron, Mich., to Chicago, Ill., February 1, 1880.

## MAIN LINE.

•	Miles, 100ths, Miles, 100ths.
In Michigan:	
From Port Huron, Mich., to Michigan and Indiana State Line,	224 00
From Michigan and Indiana State Line to Indiana and Illinois State Line,	• 80 42
From Indiana and Illinois State Line to 26th street and Western avenue, Chicago, Ill.,	26 08
Total length completed,	_ 330 50
Total length of road belonging to this Company, Total length of road belonging to this Company in	330 50
Michigan,	224 00
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,  Aggregate length of tracks in Michigan belonging to	40 50
this Company, computed as single track, Gauge of track, 4 feet 8½ inches.	264 50

# Proprietary or Leased Roads Operated by this Company.

Name, description, and lengt						Total Mi	les. I	n Michigan.
Grand Trunk Junction Rai	-	-	_	-	_	3	90	
Chicago & Western Indian Polk street, Chicago, Ill.			49 <b>6</b> 0	-	-	4	86	
Total,	-	-	-	-	-	8	76	
Total miles operated by the	Compar	ny,	-	•	-	339	27	224 00
Number of 1	Bridges	and I	Trestles	in Mic	h <b>i</b> ga:	<b>1.</b>		
Wooden bridges, number of, Iron bridges, number of,	83; 1 9;	aggre aggre	gate l egate l	ength, ength,	feet feet	;, <u> </u>		<b>5,</b> 69 <b>6</b> 55 <b>2</b>
Total,	92;	_	-	-	-	-		6,248

# Draw Bridges in Michigan.

How many on your line?			- None.
Crossings—Railro	id and High	hoay.	
What railroads cross your road at grade Grand Trunk R'y, near Port Huron Detroit & Bay City R. R., at Lapeer. Flint & Pere Marquette R. R., at Flint & Pere Marquette R. R., at Charlotte, Grand Haven & Milwaukee Toledo, Ann Arbor & North Michigs Jackson, Lansing & Saginaw R. R., Lake Shore & Michigan Southern R. Michigan Central R. R., at Charlotte Grand Rapids & Indiana R. R., at V What railroads cross your road either cand where?  Under grade: Pontiac, Oxford & Port Auston R. R. At what crossings are interlocking and Lansing and Nichols.  What pattern or patterns have you add Union Switch and Signal Company's Number of crossings of highways at grands which there are gates or flagmen, Number of crossings at which there are signals, What pattern or patterns in use?  Number of crossings of highways over one of thighway bridges, 18 feet ab Number of highway bridges, less than Have safety guards been erected at over Are your frogs and guard rails blocked session Laws 1883?  How are they treated?  With Hart's patent blocking.	nt. R'y, at Du n R. R., at at Lansing. R., at Lansing. R., at Lansing. R., at Lansing. And the control of the control control of the control	rand. Durand. Durand. Sing and Seek and Ofich. er your gray Oity. witches in State, is State rautomate lroad (over	Schoolcraft. Dassopolis. rade in this State, n operation?  263 at - 4 tic - None None. er, - 9 - 4 - 1 - Yes.
Stati	ons.		
Number of stations on whole line,	· <del>-</del>		_ 83
Same in Michigan,		- -	50
Empl	oyés.		
Number of persons regularly employed by Company, including officials, Same in Michigan,		ds operate	ed 2,567

200		ML E (	<b>JELL</b> (12	an ma		ת עב		1106		[1500, 014
Classify your e	mplo	yés a	s per	follow	ing lia	st:				Number.
Raggegeman										28
Baggagemen,	-	-	-	-	-	-	-	-	•	154
Drakemen,	•	-	-	-	-	-	-	•	-	
Conductors,	-	-	-	-	-	-	-	-	-	81
Engineers,	-	-	-	-	-	-	-	-	-	121
Firemen, -	-	-	-	-	-	-	-	-	-	110
Laborers, -	-	-	-	-	-	-	-	-	-	673
Shopmen, -	•	-	-	-	-	-	-	-	•	538
Yardmen, -	-	-	-	•	-	-	-	-	-	122
Brakemen, Conductors, Engineers, Firemen, Laborers, Shopmen, Yardmen, Others,	•	-	-	-	-	-	-	-	-	740
•			REPA	IRS A	ND R	en ev	VALS.			
			F	encing	in Mic	higan	<b>.</b>			
How many mile	as of	fenci	no he	. VA VAI	n 9					416
Give the numb	DAT O	fmil	es rec	haring	to o	mpl	ata fa	nce h	oth	210
sides of your	tracl	c. in l	Michi	gan. s	nd th	e con	nties	in wh	ich	
needed.		-,		5 u, u	1100 011				_	None.
<u> </u>	•	٠,	-	-	-	•	-	-	-	210202
		•								
			Ro	ad Be	d and	Traci	t.			
Number of trac	k sec	tions	in M	lichigs	ın.					45
Average length					<del>,</del>		-	-	-	5
										5
Average number Number of new Number of new	tion	nnt i	n wh	ole line	a dnei	nath	- A VAGP	-	-	152,779
Number of new	tica	put i	n trac	ole in I	Michia	ran ng m	o Joan	, -	-	75,799
Average number		F				···	_	-	•	387
New rails put i			tee he	or mine	3 01 10	au,	-	-	-	901
Steel [tons 1	KAO	UB.: 1 001	9 94	01 mi	ilos (R	7 lha	woile'			14.72
Total miles of	trool	. loid	:+h	.v j, m.	nes (U	1 IND	. I dilb	,,	•	14.72
About 10 mil						rich:		-	al mosti	
Davison and es					1 111 1	итен	San II	ı edni	ar born	OTR MORE OF
Davison and 6a	Br OT	Dan	10 010	COA.						
			B	ridges	and C	ulvert	8.			
Amount of tres (linear feet),		ork r	eplac	ed wit	h ear	th d	aring	the y	ear	63 <b>6</b>
		-	dn=i=	a the	TOC?	-	-	-	-	68
Timber culverte				R rne	yoar,	-	-	-	-	4
With iron pi				-	-	-	-	-	-	6 <del>4</del>
With timber,			, -	-	-	-	-	-	-	41
Cattle guards re			the -		-	-	i -	-	-	None.
New bridges bu	m al	ming	опе ў	car,	-	-	-	-	-	MOHR.

ROLLING STOCK.		
•	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight,		
exclusive of tender,	93	\$465,000 00
Number of locomotives of 20 to 30 tons weight,		
exclusive of tender,	.34	136,000 00
Number of locomotives of 10 to 20 tons weight,		
exclusive of tender,	1	1,500 00
Total,	128	\$602,500 00
Number of passenger cars—12-wheel, including		•
official cars,	2	11,000 00
Number of passenger cars—8-wheel, including		11,000 00
official cars,	24	94 000 00
		84,000 00
Number of express and baggage cars,	16	29,600 00
Number of box freight cars,	623	199,360 00
Number of stock cars,	215	75,250 00
Number of platform cars,	275	68,750 00
Number of conductors' way cars,	63	31,500 00
Other cars as follows:		
Snow scraper, 1; snow plow, 2; derricks, 2;		
auxiliary, 5; steam shovel, 1; pile driver, 1, .	12	5,000 00
Total,	1,230	<b>\$1,106,960 00</b>
Number of locomotives equipped with power brakes,	48	
Number of passenger-train cars equipped with	20	
power brakes,	42	
Number of freight cars equipped with power	=~	
brakes.	None.	
What patterns of power brakes have you in use,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
and number of locomotives and cars with each?		
All Westinghouse automatic.		
Are your freight cars being equipped with automatic	counlers	as required by
Act No. 147, Session Laws of 1885?	coupicis	as required by
Yes.		
What pattern or patterns have you adopted for use	P	
McCree automatic coupler.	•	•
TOTO MANAGEMENTO ON PROFIT		

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year, Miles run by mixed trains	-		-	928,250 2,060,490 66,231
Total mileage of trains earning revenue,	-	-	-	3,054,971

# Passenger Traffic.

Passenger Ir	affic.		
	Numbers and Quantities.	Miles.	Bate.
Number of through passengers carried,	109,435		
Number of local passengers carried,	517,475		
•			
Total number of passengers carried,	- 626,910		
Total passenger mileage, or passengers car	ried one mile.	54,665,416	
Average distance traveled by each passenge		87.2	
Average amount received from each passe			<b>\$</b> 1.53
Average rate of fare per mile for through			01.49
Average rate of fare per mile for local pass	engers.		02.28
Average rate of fare per mile for all passen			01.75
Freight Traj	ffic.		
Number of tons of through freight carried	l, 1,065,176		
Number of tons of local freight carried,	<sub>-</sub> 519,544		
Motel tong of freight counied	1 504 600		
Total tons of freight carried,	1,584,720		
Total mileage of through freight,		51,952,101	
Total mileage of local freight,	`	64,341,631	
Total freight mileage, or tons carried one	mile	116,293,732	
Average ton haul for through freight,	<b>M</b> 110, -	330.4	
Average ton haul for local freight,		123.8	
Average ton haul for all freight,		202 #	
Average amount received for each ton hau		262.7	<b>\$</b> 1 54
Average rate per ton per mile, received for		·ht	00.52
Average rate per ton per mile, received for			00.95
Average rate per ton per mile, received for			00.59
Average rate per ton per mile, received for	mii iteigit, -		00.00
Freight Forwarded at Mi	ichigan Station	8.	
			Forwarded, Tons.
Grain,		_	164,728
Flour,		_	49,215
Provisions (beef, pork, lard, etc.),		_	184,276
Animals,		_	20,780
Other agricultural products,	_ •	_	58,998
Lumber and forest products,		_	82,993
Coal,		-	102,624
Plaster, lime and cement,		-	4,125
Salt,		-	21,020
Petroleum,	·	-	698
Railroad iron, iron and steel rails,		-	43,736
Pig and bloom iron,		-	12,383
Other iron and castings,	<b>-</b>	-	8,332
Ores,		-	633
O100,		•	000

			Forwarded, Tons.
Stone, brick and sand,	_	-	27,974
Manufactures,—articles shipped from point of production,	-	-	77,330
Merchandise and other articles not enumerated above,	-	-	186,546
Total forwarded,	-	_	1,046,391

# Tonnage of Articles Transported-Entire Road.

										Tons.	Per Cent.
Grain,		_	_	-	-	_	-	-	_	249,474	15,74
Flour,	_	-	-	_	-	-		-	_	74,535	4.70
Provisions	(beef	, pork	, lard	l, etc.	),	-	-	-	-	279,079	17.61
Animals,	-	-	-	_	_	-	-	_	-	31,470	1. <b>9</b> 9
Other agri					-	-	-	-	-	89,351	5.6 <b>4</b>
Lumber ar	ad for	est p	roduc	ts,	-	-	-	_	-	125,690	7.93
Coal,	-		_	_	-	-	-	-	-	155,421	9.81
Plaster, lin	ne an	d cem	ent,	-	-	-		-	-	6,247	.39
Salt,	-	_		_	_	_	-	-	-	31,834	2.01
Petroleum	,	_	_	-	_	-	-	-	-	1,057	.07
Railroad in	on, ir	on an	d ste	el rail	s.	-	-	_	-	66,237	4.18
Pig and bl	oom	iron,	-	-	_	-	_	_	-	18,754	1.18
Other iron	and	castin	gs,	-	_	_	-	_	-	12,618	.80
Ores,	_	_	-	_	_	_		_		958	.06
Stone, bric	k and	sand	ł,		_	_	-	-	_	42,365	2.67
Manufactu				ipped	fron	n poin	t of p	roduc	tion,	117,113	7.39
Merchandi										282,517	17.83
Total	tons	carrie	d,	-	-	-	-	-	_	1,584,720	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

One and a half first-class rates, except for fish, game, and fruit, which are charged first-class. Half fare for messengers.

Freight taken at trains.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Three wires, 335 miles each, owned by Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York,

\$13,647 70

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Anglo American Provision Car Company, Chica	go,	- •	_	- \$54 41
Arms Palace Horse Car Co., Toledo,	•	-	-	. 68 42
American Live Stock Express Co., New York,	_	_	-	_ 154 58
American Refrigerator Transit Co., St. Louis.	-	_	-	_ 4 41
American Refrigerator Car Co., New York,		_	_	_ 1 21
Armour Refrigerator Line, Chicago,	-		-	1,740 78
Ayers, A. A. & Co., Montreal,	_	-	-	32 03
Brill, J. G., Philadelphia,	_	-	_	. 1 54
Chicago, Boston & Liverpool, St. Albans,	_	_	_	_ 14,671 24
Commercial Express Line (Tiff.), Buffalo,	-	_	-	3,895 44
D. G. H. M. Special Blue Line, per W. K. Muir,	Def	t <b>r</b> oit,	_	39 54
Frazer, Lubricator Co., Chicago,	-	•	_	9 62
Kansas City Dressed Beef Line, Kansas City,	-	-	_	. 38 51
Lackawanna Line, Buffalo,	_		_	_ 231 87
Menasha Wooden Ware Co., Chicago,	-	-	_	_ 19 49
Merchants' Despatch Trans. Co., New York,	-	_	_	_ 385 71
Michigan Car Company, Detroit,	-	-	_	_ 6,883 59
Morris, Edwards Manufacturing Line, Chicago,	-	_	_	_ 72 82
Morris, Nelson & Co., Chicago,	-	-	_	46 96
National Car Co., St. Albans,		_	_	15,764 73
Racine Wagon & Carriage Company, Milwaukee	۔ وا	-	_	. 10 44
Sheboygan Manufacturing Co., Chicago,	_	-	_	. 884
St. Louis Manufacturing Car Co., St. Louis,	-	_	-	7 61
Skeel's Stable Car Line, Buffalo,	-	-	-	1,401 17
Swift's Refrigerator (N. D.), Chicago,	_	_	-	_ 8,428 28
Swift's Refrigerator Line, Chicago,	_	_	_	_ 49,150 13
Transcontinental Transportation Co., Chicago,		_	_	_ 3 20
United States Transportation Company, Chicag		_	_	_ 16 02
Union Tank Line, New York,		-	_	. 76 48
Walker, E. C., Detroit,	_	-	_	. 55 21
• •				

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

January 29. M. Lynch, brakeman, Lapeer, slipped while coupling; accidental; verdict: Company exonerated.

January 31. F. A. Garfield, brakeman, between Climax and Scott's, fell

from train; accidental; verdict: Company exonerated.

March 27. J. K. Lewis, trespasser, Battle Creek, walking on track; his own carelessness.

May 13. J. Pearson, brakeman, Cassopolis, stubbed foot against tie or rail; accidental.

July 4. Mrs. S. Underhill, Milletts, highway collision; her own carelessness; Company not censured.

August 12. F. Cones, brakeman, Bellevue, slipped and fell under cars;

accidental; Company not censured.

September 21. O. D. Richardson, trespasser, Bancroft, stealing ride on deadwood of car; Company not censured.

October 6. A. F. Mead, Edwardsburg, highway collision, was deaf; accidental; Company exonerated.

December 6. H. McGowen, brakeman, C. & G. T. Junction, collision; want of care on part of train men, who were censured.

December 20. N. Lemon, section foreman, Vicksburg, struck by train; his own carelessness; Company exonerated.

December 24. G. C. Downing, brakeman, Lansing, slipped and fell from train; accidental; Company exonerated.

#### INJURED.

January 23. F. E. Pillmore, brakeman, Stillwell, fell between cars, injured internally; his own carelessness.

March 10. C. Gustason, brakeman, Durand, coupling, hand crushed; his own carelessness.

March 30. Jos. English, brakeman, Nichols, coupling, fingers crushed; his own carelessness.

June 5. H. McGowan, brakeman, Trowbridge, coupling, fingers crushed; his own carelessness.

July 4. Miss Maud Bly, Milletts, highway crossing, seriously injured; her own carelessness.

July 13. C. A. McCam, brakeman, Capac, coupling, thumb crushed; his own carelessness.

August 9. Geo. Weaver, trespasser, Marcellus, climbing through train; foot crushed.

August 29. Jno. Long, passenger, Emmet, getting on train in motion; foot crushed; intoxicated.

October 12. W. A. Mick's, yard brakeman, Nichols, coupling, fingers crushed; his own carelessness.

October 20. C. Wilson, brakeman, Darand, coupling, two fingers crushed; his own carelessness.

November 24. T. J. Weis, yard conductor, Nichols, coupling, injured internally; accidental.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
·	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions		1						
Coupling cars		1			7			
Derailmenta					<b></b>			
Falling from trains		8			1	 		
Frogs								
Getting on and off trains				1				
Highway crossings			2			1		
Miscellaneous		2						
Overhead obstructions								
Trespassers on trains			1					
Trespassers on tracks			1			1		
Total		7	4	1	8	2		

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	_	_	-	11
Number of persons injured during the year,	-	_	-	-	11
Number of casualties purely accidental,	-	_	-	-	7
Number resulting from lack of caution, careles	ssness,	or m	i <b>scon</b> d	uct,	15
Persons killed or injured while intoxicated,	_	-	-	_	1
Trespassers and tramps killed or injured,	-	-	-	-	3
Suicides,	_	_	_	-	

# CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	6	7	18
Conductors		1	1
Engineers			
Firemen		 	
Laborers	1		1
Shopmen		 	
Yardmen			
Not classified above			<b>-</b>
Total	7	8	15

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

William J. Spicer, General Manager, and James H. Muir, treasurer, of the Chicago & Grand Trunk Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. J. SPICER, JAS. H. MUIR.

Subscribed and sworn to before me this 28th day of March, A. D. 1888.

[L. S.]

JAS. McQUEEN, JR.,

Notary Public, Wayne Co., Mich.

## ANNUAL REPORT

OF THE

# MILWAUKEE, LAKE SHORE & WESTERN RAILWAY COMPANY.

For the Year ending December 31, 1887.

[ Filed March 81, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, F. W. RHINELANDER, New York.

Assistant to President, F. W. RHINELANDER, Jr., Milwaukee, Wis.

Vice President, JOSEPH R. BUSK, New York.

Secretary and Gen'l Solicitor, ALFRED L. CARY, Milwaukee.

Auditor, W. R. HANCOCK, Milwaukee.

Treasurer, GORDON NORRIE, Milwaukee.

General Manager, H. F. WHITCOMB, Milwaukee.

Superintendent, J. DONOHUE, Milwaukee.

Division Superintendents:

W. H. VANDEGRIFT, Kaukanna, Wis. J. S. JONES, Ashland.

Chief Engineer, E. H. RUMMELE, Milwaukee.

Superintendent of Telegraph, H. C. REED, Milwaukee.

Assistant Treasurer, A. D. ALLIBONE, Milwaukee.

General Passenger Agent, GEO. S. MARSH, Milwaukee.

General Freight Agent, C. L. WELLINGTON, Milwaukee.

General Land Agent, J. O. THAYER, Milwaukee.

Purchasing Agent, H. W. REIGHLEY, Milwaukee.

## DIRECTORS.

F. W. RHINELANDER, New York city. Chas. G. Rambay, Norfolk, Va.

W. K. HINMAN, New York city. D. Parrise, Philadelphia.

Term expires June, 1888.

SAMUEL S. SANDS, New York city.
THEO. M. DAVIS, Newport, R. I.
CHARLES DANA, New York city.
JOSEPH VILAS, Manitowoc, Wis.
JAMES H. MEAD, Sheboygan, Wis.

Term expires June, 1889.

F. F. THOMPSON, New York city. GORDON NORRIE, New York city. JOSEPH R. BUSK, New York city. CHAS. LULING, Manitowoc, Wig.

Term expires June, 1890.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

#### REMARKS.

\* The articles of association of the Vieux Desert & Lake Superior Railroad Company were filed in the office of the Secretary of State of the State of Michigan, September 28th. 1881. This Company was afterwards consolidated with the Milwaukee, Lake Shore & Western Railway Company, a corporation of the State of Wisconsin, under articles filed in the office of said Secretary of State on the 4th day of May, 1883; the name of the consolidated Company being Milwaukee, Lake Shore & Western Railway Company.

## GENERAL EXHIBIT.

				DEBIT.	CREDIT.	
Total income,	_	-	_		<b>\$3,180,681</b> 0	4
Total expenses, including taxe	8, .	-	-	<b>\$</b> 1,9 <b>4</b> 0,357 66		
Net income,	-	_	_		1,240,323 3	8
Interest on funded debt,	-	_	-	517,687 03		
Rentals of tracks, etc.,	-	-	-	31,307 49		
27						

7,000,000 00

Bonds redeemed,		_	<b>\$155,000 00</b>	
Balance applicable to dividends, Dividends declared (7 per cent):	-	-		\$703,994 52 536,328 86
Preferred, Common,	-	-	\$350,000 00 80,000 00	
,				430,000 00
Balance for the year,	•	-		\$106,328 86
Balance (profit and loss) last year,* Items not included in above, as follows	- 8;	-	<b>\$</b> 316,751 54	
Miscellaneous receipts, Balance forward to next year, _	-	-	154 062 24	47,733 38
			\$154,062 24	<b>\$154,062 24</b>
ANAI VOIC OF C	A DT1	1AT 0	TO CE	

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter	or a	rticles	of a	association,	_ \$10	0,000,000 00
Par value of shares,	_	<b>\$10</b> 0	00	_		
No. of shares issued,	_	70,	,000			
Amount paid in on common,		-	_	\$2,000,000	00	1
Amount paid in on preferred,	-	-	_	5,000,000	00	

Total amount paid in, as per books of the Company. Paid in per mile of road owned by Company, -miles, 531.18,

\$13,178 10

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Consolidated first mortgage bonds, 1881	6 per cent	1921	New York	\$4,850,000 00
Michigan Div. first mortgage bonds, 1884	6 per cent	1924	New York	1,281,000 00
Ashland Div. first mortgage bonds, 1885.	6 per cent	1925	New York	1,000,000 00
Harley & Ontonagon branches first mort- gage bonds	6 per cent	1896	New York	225,000 00
Equipment bonds of 1882, 1882	8 per cent	1892	New York	150,000 00
Equipment bonds of 1885, 1885	6 per cent	1895	New York	500,000.00
ncome bonds, 1881	6 per cent	1911	New York	- 500,000 00
Funding notes, 1885	7 per cent	1888	New York	100,000 00
Convertible debentures of 1907, 1887	5 per cent	1907	New York	1,156,000 00

<sup>\*</sup> Surplus earnings of previous years expended for construction purposes, and not capitalized, transferred from income account to cost of road December 31, 1887, \$316,751.54.

# UNFUNDED DEBT.

				.,		•					
For What Incurred			Is the S	ame to b	e Funde	i, or hor	v Liquida	ted.		Amour	ıt,
For construction	)		_								
For equipment	}	Fund	ed					• • • • •		\$350,0	00 00
For real estate						<b></b> -					
For renewals							·				
For miscellaneous		To be	paid ir	cash	·					256,0	95 86
For current balances											
Total unfunded debt										\$606,0	55 86
		]	RECAI	PITUL	ATION	•					
Total funded debt,		_	_	_	_	_	_	_	<b>\$</b> 9.2	62,000	00
Total unfunded de		_	-	-	_	_	-	-		06,055	
m	••••										
Total debt lial	ollities,	, -	-	-	-	-	-	-	<b>\$</b> 9,8	68,055	86
Amount of debt li	abilitie	s per	mile	of ros	ad,—5	31.18	miles	۔ وا		18,577	60
Total amount of s	tock ar	ad del	ot.	_	_	_	_	_	16.8	68,055	86
Stock and debt per				-	-	-	-	-		31,755	
	GEI	NERA	L BAI	LANO	E SHE	eet,—	Dr.				
Construction accou		-	-	-			-	l			
Equipment accoun Cash items:	t, _	-	-	-	-	-	-		<b>\$</b> 16,9	62,828	75
Cash,	-	-	-	-	-		31,027				
Due from agents	, -	-	-	-	-	10	80,132 	24 —	4	91,159	57
Other assets:	. ,								-	,	٠,
Materials and su Debit balances	pplies	, -	- -			\$19	94,981	09			
viduals.	гош с	ошра	TITER !	BILL II	ıuı-	4	16,370	44			
Due from St. Pau	ıl, Ea	stern	Gran	d Tr	unk		,				
R'y Co., for adv	ances	accou	nt of	f inte	rest						
on bonds,	-	-	-	-	-		92,504	90	9	22 050	49
										33,856 	<del>4</del> 0
Total,	-	-	-	-	, -	-	-	-	\$17,7	87,844	75
	GE	NERA	L BAI	LANC	E SHE	EET,—	Cr.				
Capital stock,	-	-	-	-	-	-	-	-		00,000	
Funded debt,	•	-	-	-	•	-	-	-	9,2	62,000	00
Unfunded debt:									-	9	0=
Interest unpaid,- Dividends unpaid				4 19	- 88	-	-	-		35,726 55,000	
Vouchers and ac			or y	±, 10	ر00	- <b>£</b> 14	15,132	53	Z.	00,000	v
		, -	-	-	-	V = 1	,				

Total,

						•	
Other liabilities (list as follows):							
Loans on account construction a	nd equ	ipmei	ıt, <b>\$</b> 3€	0,000	00		
December pay roll, Unpaid labor—uncalled for,	-	-	ช 1	0,210 1 RA1	40		
Onpaid labor—uncarred for,	-	-		4,044	. 20	\$606,055	98
Redeemed bonds account,						375,000	
Profit and loss or income accounts	-	•	-	-	-	154 000	
110ht and 1065 of Incomo accounts	, -	•	-	-	-	101,000	
Total,	-	-	•	-	-	<b>\$17,787,844</b>	75
COST OF ROA	D ANI	EQT	JIPME	NT.			
Purchased b		•					
	-						
When purchased,—December 11th						** *** ***	
Original cost to present Company,							
Amount expended since purchase,	accoun	TOI (	constr	uction	n, -	8,406,888	07
Amount expended since purchase,							
Total cost to date of report,		-	•	-	-		
Proportion of cost for Michigan,	-	-	-	-	-	3,172,048	97
Expenditure for Construction	ı, Equij	pment	and I	Bettern	nent	a, 1887.	
New buildings,						<b>\$</b> 139,179	98
New hridges	-	-	-	-	-	37,388	
New bridges, Commercial Dock, Manitowoc,	-	-	-	-		7,538	
Commercial Dock, Ashland.	-	-	-	-	_	24,938	23
Commercial Dock, Ashland, Ore Dock No. 2, Ashland,	-	-	-	-	-	204,846	19
Machinery and tools for shops a	t Kaul	kauns	. Ānt	 igo. s	and	201,010	
Ashland,			-	.g., .		30,114	60
Telegraph Line, additional wire	betwe	en M	[ilwau	kee :	and	00,111	•••
Ashland,	_					14,937	70
Right of way and station grounds,	_	_	_	-	_	12,893	
Fences, crossings and signs.	_	_	_ 、	-	_	22,317	
Improvements on main track and	vards.	-	_		_	95,489	
Spurs to mills, Southern Division,	· -	_		_	_	31,069	
Side tracks, Southern Division, .	-	-	-	-	_	70,036	
Side tracks, Michigan Division,	-	-	-	-	-	8,423	
Side tracks, Ashland Division,	_	-	-	_	-	4,425	39
Spurs and side tracks, Hurley Bran	ich.	-	_	_	_	38,453	22
Hurley Branch, Logging Road, Double Track between Hurley and	-	_	_	_	-	47,202	66
Double Track between Hurley and	Ironw	ood,		-	_	20,630	90
Mining Tracks in Michigan,	_	_	_	-	_	142,416	75
Ontonagon River Branch Extensio	n, _	-	-	-	_	1,304	56
Rhinelander Branch Extension, -	-	-	-	-	-	58,340	
Stone ballast, ditching, and other		dinar	y expe	nditu	res	-	•
on Ashland and Michigan Divis		- '	-	-	_	17,738	94
Surveys,	-	-	-	-	-	5,121	53
Equipment,	-	-	-	-	-	515,989	

**\$1,550,797 47** 

# ANALYBIS OF EABNINGS.

## PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Mails.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$556,100 56	\$104,889 11	\$960,489 67	\$37,845 33	\$88,609 57	\$736,947 57	\$100,960 88	\$0 96.8	\$1,874 18
Leased or Proprietary Roads. St. Paul, Kastern Grand Trunk Rallway	17,838 49	1,494 08	18,838 51	1,887 56	2,788 90	28,408 96		8. 8.	417 91
Total passenger earnings.	\$578,489 (6	\$105,883 18	\$679,323 18	\$39,685 88	\$41,842 47	841,342 47 \$700,850 58 \$100,969 88	\$100,969 88	\$0.94.8	\$1,288 77

### FREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$1,749,547 61	\$638,889 75	\$2,388,487 36	\$2,388,487 36	88 906'7/28	33. 85	\$4,453 21
St. Paul, Eastern Grand Trunk Railway	18,650 76	18,942 89	8.,898 15	31,898 15		8	290 62
Total freight earnings	\$1,768,198 87	\$662,189 14	\$662,138 14 \$2,420,330 51 \$2,420,330 51	\$2,420,880 51	\$274,996 68	<b>33</b>	\$4,086 46

WIT			III DA	TIMO	ID A	EIUM	Ю.		[Dec.	91*
Total transport	tation e	arnings.		_	_	_	_	_	<b>\$3</b> ,180,681	04
Total transport	earnin	gs per mi	le of	road.	_	85	5,370	23		
Transportation	earning	gs per tre	in m	ile	-		1			
ттапарот чаноп	Carnin	Re her are	•111 111	110,	-		_	00		
Total earn	ings fro	m operat	tion o	f road	, -	-	-	-	<b>\$3,180,681</b>	04
Total earnings	per mil	le of road	l <b>.</b>	_	_	\$5	,370	23		
Total earnings					_	-		59		
Proportion of	taxable	earnings	for M	Iichig:	an.		_			
						534	,230	48		
(99.48), Total taxable	Agrning	e nar mi	م ما	roed	in	00.	.,			
				IVani	111	9	3,779	40		
Michigan, Income other t	han fra	 	~	-	-	·	,,,,,	¥0		
Descints from	Tan Iro	m earnin	gs:			4 5	פפית ע	90		
Receipts from	п гипа	oaies,	-	-	-	4.	7,733	90		
Total inco	me fron	all sour	ces,	-	-	-	-	-	<b>\$</b> 3,228,41 <b>4</b>	48
Proportion of i	ingome :	for Michi	ran .							
Earnings,	тооще.		_			<b>⊕</b> 27/5	5,966	Ω1		
Land sales,		• •	-	-	-					
Land sales,	-		-	-	-	21	,301	01	397,267	99
									051,201	00
		ANAI	Wata	<b>○E E</b>	V DEX	roro				
		ANAI	11010	OF E	AFEN	ioes.				
	CLASS	3 1.— <i>Mai</i> 1	ntenan	ce of	Way d	ınd Bui	lding	8.		
Repairs of road	dway an	d track,	_	-	_	-		-	\$331,794	19
Renewals of ra	ils,		_	-	_	-	-	-	75,583	80
Renewals of ti	es.		_	_	_	_	_	_	52,199	11
Repairs of brid	lges, inc	cluding co	alvert	s and	cattle	e guard	ls,	_	32,008	49
Repairs of fend	ces. road	d crossing	zs. an	d sign	8.	-	_	_	4,382	
Repairs of buil	dings.		_	-		_		_	41,240	
	6-,			-						
Total,			_	_	-	-	-	_	\$537,208	00
•									•	
	CLASS	2.—Maint	enano	of M	otive .	Power a	ınd C	ars.		
Repairs of loce	omotive	<b>3</b> .							<b>\$</b> 69,224	84
Repairs of pass			-	-	-	-	•	-	31,888	
Repairs of frei	onigor o			-	•	-	•	-	108,584	
recharge of He	RIII Car	٠, -	-	-	•	-	-	-	100,004	
Total,	-		-	-	-		-	-	\$209,697	93
	C	CLASS 8.—	Condu	cting	Trans	portati	on.			
				•		•			_	
Fuel for locon		•	-	-	-		•	-	<b>\$</b> 282,290	
Water supply,			_	-	-	-		-	18,934	
Oil and waste,			-	_	_	_	-		17,898	
Locomotive se	rvice.	. <u>.</u>	_	_	_		_	_	209,706	
Passenger trai	n servic	e	-	_	_	_	_	_	50,545	
Passenger trai	n suppli	68	-	-	-	_	-	_	5,668	
Mileage of car	m vappii ra.	, -	-	-	-	-	-	_	11 514	

1887.] MILWAUKEE,	LAKE SHO	RE &	, WE	STER	N RAIL	WA?	Y CO. 2	215
Freight train service,							\$139,297	41
Freight train supplies,		-	-	_	_	-	5,800	
Telegraph expenses (main	tonanco an	d one	ratin	σ\. ¯	•	-	40,394	
Damage and loss of freigh	t and hage	a ope	,1 60 0111	5/)	•	-	3,591	
Damages to property and	oettje	ago,	-	-	•	-	10,367	
D	Ca. (110, -	-	-	-	-	-	8,573	
		•	-	-	-	-	126,284	05
Agents and station service	, -	-	-	-	-	-	17,393	
Station supplies,		-	-	-		-	17,595	11
Total,		-	-	-	-	-	\$948,262	50
	CLASS 4.—G	<del>lener</del> o	ıl Exp	enses	•			
Salaries of the general off		Com	pany	, -	-	-	<b>\$39,4</b> 69	33
Salaries of clerks in gener	al offices,	-	_	-	•	-	28,698	
Law expenses,		-	-	-	-	-	9,398	31
Insurance,			_	-	-	-	10,403	
Stationery and printing,	_	-	-	-	-	_	18,752	64
Outside agencies and adve	ertising,		_	_	-	-	16,834	46
Contingencies,		_	_		-	_	31,147	42
Taxes,				_	_	_	90,484	
Total,		-	-	-	-	-	<b>\$245,189</b>	23
REC	APITULATI	ON (	of ex	PEN				
•					Per Ce Exper	nt of	!	
Maintenance of way and	buildings.	_	_		27	7.7	<b>\$537,208</b>	00
Maintenance of motive po		Irs.	_	_	10	0.8	209,697	
Conducting transportatio	n.	,	_	_		3.8	948,262	
General expenses, includi	ng taxes.	_	_	_		3.7	245,189	
<u>-</u>	•			•				
Total operating exper	1868 who tai	Ke8,	•	-	100.	UU	\$1,940,357	00
Operating expenses and road,		_	-		<b>\$</b> 3,275	97		
Operating expenses and tag for trains earning reven					0	96.9	9	
Proportion of operating Michigan:					J	- <b>- •</b> •	-	
Main line,		-	-	-	264,745	66		
Total proportion of e	expenses for	r Mie	chiga	n, _	-	-	\$264,745	66
Percentage of expenses to								
	Asrnings			61.1				
Net earnings per mile of	earnings,	-		61.1	\$2.094	15		
Net earnings per mile of	road, _	-	•	61.1	<b>\$2,094</b>			
Net earnings per mile of Net earnings per train m	road, _	- - -	-	61.1	-	15 62		

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Lake Shore Junction to Ashland, July 1, 1885.

Total,

Total miles operated by the Company,

MAIN LINB.		Miles, 100	tha M	(las. 10)	tha.
In Michigan: From State Line to Montreal River,	_	66			,
Wisconsin: From Lake Shore Junction to State Line, From Montreal River to Ashland,	-	280 39			
Total length completed,	· -	-	-	387	38
BRANCHES.		,			
Wisconsin:					
From Two Rivers Junction to Two Rivers,		6	20		
From Hortonville to Oshkosh,	-	23			
From Eland Junction to Wausau,	-	23			
From Antigo Junction to End Wolf River Brane	ch -		73		
From Monico to Rhinelander,	ош, -		70		
From Hurley to mines, etc.,	-		31		
Michigan:	-	10	O L		
			49		
From Watersmeet Branch, From Ontonagon River Branch,	-		43		
Described to miner and mills in Mishing	-	_	93		
Branches to mines and mills in Michigan,	-		23		
Branches to mines and mills in Wisconsin,	-	18	97		
Total length of branches owned by Company,	-	-	-	143	80
Total length of branches owned by Company in	Mich.				
-	BLICH-	29	59		
gan, Total length of road belonging to this Company,	-	520	<b>U</b>	531	10
Total length of road belonging to this Company in M				OOT	10
- · · · · · · · · · · · · · · · · · · ·	MICHI-	06	48		
gan, Aggregate length in Michigan of sidings, spurs, and	athan	99	40		
	Orner				E 17
tracks not above enumerated,		-	-	9	57
Aggregate length of tracks in Michigan belongi	ing to			105	^-
this Company, computed as single track,	· -	-	-	105	U3
Gauge of track 4 feet 81 inches.					
Proprietary or Leased Roads Operated by	this Co	mpany.			
		Total Mi	lee I	n Mich	icen
Name, description, and length of each: From Milwaukee to Lake Shore Junction we use track of C. & N. W. R'y Co., jointly with		TOWN MA			
Company,		3	60		
St. Paul Eastern Grand Trunk Railway:	_	_			
From Clintonville to Oconto,		56	00		
St. P. & G. T. spurs to mills,			50		
	•				

99 48

61 10

592 28

a	1	
7.		7

### Number of Bridges and Trestles in Michigan.

Wooden bridg Wooden trest				-	28; ag 7; ag	grega grega	te len te len	gth, f gth, f	eet, eet,	2,550 1,128
Total,	-	_	_	_	35;	_	_	_	_	3,678

### Draw Bridges in Michigan.

How many on your line? None in Michigan.

1887,]

### Crossings-Railroad and Highway.

What railroad		your	road	eithe	over	or un	der y	our g	rade in	this State,
	-	ъτ	2 0+ 0	2.:	<b>.</b>					
Wisconsin Number of c						. :- 42	.:. 04	-4-		17
Number of o									- at	17
which ther					n Rra	ue III	шю	Dua vo,		1
Number of c	rossin a	000 U	which	thore	-	laatmi	-	ntomo	tio	•
signals, _	TOPSTIR	3 690 1	мпісц	ипотс	aree	STOCPT TO	CULA	исоща	MC	
What patters	n or nat	terne	in ne	A 2	•	-	•	-	-	_
Number of c	rossinos	of h	igh wa	VA OVE	r of D	nder i	ailros	rd (or	ar.	
—; under		, UL II.	.8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,, OI u	auor 1	. WILL OF	<i>a</i> a (01	01,	None.
Number of 1		h <del>r</del> id	ges. 1	R feet	abov	e trac	k.	•	-	None.
Number of 1								track.		None.
Have safety	guards	beer	a erec	ted a	t ove	rhead	obstr	uction	ns ?	2102201
Are your fro										
Session La			_	_	_				-	Yes.
How are the										
Filled with			$\mathtt{leng} t \mathtt{h}$							
	•		Ū							
	1	•		S	tation	8.				
Number of a	stations	on w	hole l	ine.	_	_	_	_	_	103
Same in Mic				_	_	_	_	_	_	8
				IC:	nploye	io .				
							_			
Number of					yed o	n all i	roads	opera	ted	
by Compa		uding	g offic	ials,	-	-	-	-	-	2,036
Same in Mic		<i>,</i> -		:			-	-	-	235
Classify you	r emplo	yes a	s per i	OIIOM	ing li	st:				Number.
De grangemen										16
Baggagemen		-	-	•	-	-	-	-	-	173
Brakemen,	-	-	-	-	-	-	•	-	-	66
Traincere	-	-	-	•	-	-	-	-	-	93
Brakemen, Conductors, Engineers, Firemen, Laborers,	-	-	-	•	•	-	-	•	-	93 93
Laborera	-	-	•	-	•	•,	-	-	-	690
Shopmen, .	-	-	•	-	-	-	•	-	-	259
Yardmen,	-	-	-	-			-	-	-	209 84
Others,	-		-		-	-	-	•	-	562
Configure, -	-	-	-	-	-	-	-	-	-	902

### REPAIRS AND RENEWALS.

### Fencing in Michigan.

How many miles of fencing have you?  Give the number of miles required to complete fence both side of your track, in Michigan, and the counties in white needed:  154 miles in Michigan in Gogebic county, or 77 miles of	ich	6 <b>5,</b>
Road Bed and Track.		
Number of track sections in Michigan, Average length of sections,—miles, Average number of men in each section gang, Number of new ties put in whole line during the year, Number of new ties put in track in Michigan:	171,6	14 6 8 51
No record, track in Michigan did not need many renewa Average number of new ties per mile of road,—545 miles,		15
New rails put in track: Steel [tons, 3,281], miles—renewals, Total miles of track laid with steel rails,		3 <del>4</del> —
Bridges and Culverts.		
·		
Amount of trestle work replaced with earth during the year (linear feet),  Timber culverts replaced during the year: With iron pipe—number, With sewer pipe,—number, With timber,—number, New bridges built during the year,—number,	None in Midigan.	
ROLLING STOCK.  Number of locomotives of more than 30 tons weight,	Present Estimated Val	ue,
exclusive of tender,  Number of locomotives of 20 to 30 tons weight,	<b>\$589,000</b>	00
exclusive of tender,	11 60,000	00
Total,	92 \$649,000	00
Number of passenger cars—12-wheel, including official cars,  Number of passenger cars—8-wheel, including	1 11,000	00
official cars,	42 161,000	
Number of express and baggage cars,	15 38,000	
Number of box freight cars, 1,8	300 598.000	
Number of stock cars,	55 23,000	
Number of platform cars, (	680 224,000	
Number of ore cars, 8	850 318,000	00-

						Present
•					Number.	Estimated Value.
Number of conductors Other cars as follows:	' way cars,	-	-	-	43	<b>\$</b> 31,000 00
Coal cars,		-	-	-	100	49.000 00
Steam excavators, _		-	-	-	5	33,000 00
Refrigerator cars, 11	ı <b>, \$</b> 6,600; cl	harcoal	cars,	10,		
\$4,000,	<i>-</i>		-		21	10,600 00
Tool cars, 2, \$1,000; drivers with cars,		rs, 2, <b>\$</b> 3,	800 ; <u>]</u> -	pile -	6	9,800 00
Total,		-	-	-	3,118	<b>\$1,506,200 00</b>
Number of locomotives	equipped wi	th powe	r bra	kes,	66	
Number of passenger power brakes,	r-train cars	equipp	ea w	ıın	E 4	
Number of freight of	esse equipp	od writh	- 201	- Wat	54	
brakes.	ware edurbh	or win	, po	401	51	
What patterns of power	er brakes ha	ve von	in u	se.	01	
and number of locon	notives and	cars wit	h ea	ch?		
All Westinghouse ai						
Are your freight cars	being equip	ped wit	h au	tomati	c couple	rs as required
by Act No. 147, Sess	ion Laws of	1885?				
Yes.		. 3				
What pattern or patter	ns nave you	adopted	1 Ior	use?		
Blocker coupler.			•			
	MILEAGE	, TRAF	FIC, 1	ETC.		
		in Milea	ge.			
Miles run by passenger						
Miles run by freight tr	trains durin	ng the y	ear,	-		805,967
miles run by meight of	ains during	ng the year	ear, r,	-		_
Miles run by mixed tra	ains during	ng the year	0ar, r, -	- -		805,967 1,195,583
Miles run by mixed tra	ains during	the year	r, -		!	1,195,583
Miles run by mixed tra Total mileage of t	ains during	the year	r, -	- -		_
Miles run by mixed tra	ains during ins, rains earnin	the year	r,	-		1,195,583
Miles run by mixed tra	ains during ins, rains earnin	the year	r, - 10, affic.	-	:	1,195,583
Miles run by mixed tra	ains during ins, rains earnin	the year	r, 10, affic. Nu	- - - mbers a:		2,001,550
Miles run by mixed trace Total mileage of to	ains during ins, rains earnin	the year - g revenu	r, 10, affic. Nu	uantities	. Mile	2,001,550
Miles run by mixed trace  Total mileage of total  Number of through pa	ains during ins, rains earning  Passe ssengers car	the year g revenu enger Tro	r, 10, affic. Nu	uantities 27,0	). Mile 01	2,001,550
Miles run by mixed trace Total mileage of to	ains during ins, rains earning  Passe ssengers car	the year g revenu enger Tro	r, 10, affic. Nu	uantities	). Mile 01	2,001,550
Miles run by mixed trace  Total mileage of total  Number of through pa	ains during ins, rains earning  Passe ssengers car ngers carried	g revenuenger Tra	r, - 10, affic. Nu Q - -	27,00 531,85	01 29	2,001,550
Miles run by mixed trained trained mileage of the second second passes and second second passes are second second second passes and second sec	ains during ins, rains earning  Pass  ssengers car ngers carried  assengers ca e, or passengers	g revenuenger Traceried,	r, - affic. Nu Q ied or	27,00 531,83 558,83	01 29 —	1,195,583 2,001,550 s. Rate.
Total mileage of the Number of through particular number of particular number number of particular number n	ains during ins, rains earning  Pass  ssengers car ngers carried  assengers ca e, or passeng led by each p	g revenuence Traceried, l, - wried, lers carried, lers carried,	r, - affic. Nu Q ied or	27,00 531,83 558,83	01 29 —	1,195,583 2,001,550  s. Rate.
Total mileage of the Number of through particular number of particular n	ains during ins, rains earning  Pass  ssengers car ngers carried  assengers ca e, or passeng led by each ped from each	g revenuence Traceried, l, - wried, lers carried, lers carried, lessenge	r, - affic. Nu Q ied or r, nger,	27,00 531,89 558,89 ne mile	30 30 30 	1,195,583 2,001,550 2,001,550 Rate.
Number of through pa Number of local passer  Total number of passer  Total number of passer  Total passenger mileage Average distance travel Average amount receive Average rate of fare pe	ains during ins, - rains earning  Pass  ssengers car ngers carried  assengers ca e, or passeng led by each ped from each or mile for the	g revenuence Trace of the passenge of passenge through passen	r, affic. Nu Q ied or r, nger,	27,00 531,85 558,85 ne mile	30 30 30 	1,195,583 2,001,550  2,001,550  Rate.  1,085 44 - \$1 23 - 2.624
Total mileage of the Number of through particular number of particular n	ains during ins, - rains earning  Pass  ssengers car ngers carried  assengers ca e, or passeng led by each ped from each or mile for the	g revenuence Tro	r, affic. Nu Q ied or r, nger, passer	27,00 531,83 558,83 ne mile	30 30 30 	1,195,583 2,001,550 2,001,550 Rate.

### Freight Traffic.

Number of tons of throughout tons of freight carried,  Total tons of freight carried tons of through free Total mileage of local freight Total freight mileage, o	ght carried, sight, at,	ed, 	2,023,7 - -	/53 	110,	692,025 307,949 ——— 999,974	
Average ton haul for throug Average ton haul for local fi Average ton haul for all frei Average amount received for Average rate per ton per mile Average rate per ton per mile Average rate per ton per mile	reight, ght, _ r each to e, receive le, receive	n h d fo	aul, or throu or local	gn frei	freight,	151 112 87.5	\$1 20 .978 1.603 1.367
Freight ;	forwarded	at 1	Michiga1	ı Sta	tions.		Forwarded,
Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products Lumber and forest products Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Ores (net tons), Stone, brick and sand, Manufactures,—articles ship Merchandise and other articles	,	- - - - - - - - -	- - - - - - - int of p	- - - - - - - - - - - abo	- - - - - - - - - - notion,		73 54 112 446 72 28,602 29 15 3 4 119 1 418 933,461 1,535 1,077 1,993
Total forwarded,	· -	-	-	-	-		968,014
Tonnage of	Articles T	rans	ported-	-Ent	ire Road.	•	
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural products	 , etc.), 				- - -	Tons. 20,550 11,347 13,334 5,963 7,293	.56 .56 .30

								Tons.	Per Cent.
Lumber and f	orest prod	lucts.	_	_		_	_	452,598	22.36
Coal,				_	_	-	_	32,207	1.59
Plaster, lime	and cemer	nt, _	-	_	-	-	-	2,556	.13
Salt,		-	_	_	-	_	-	1,559	.08
Petroleum,				-	-	-	-	2,946	.14
Railroad iron,			ails,	_	-	-	-	17,072	.84
Pig and bloom	a iron, .	-	-	-	_		-	11,576	.58
Other iron and			-	_	-	-	_	12,700	.62
Ores (net),				-		-	_	1,195,171	59.07
Stone, brick a	nd sand,	_		_	_	-	_	56,743	2.80
Manufactures,	-articles	s shippe	d fro	om po	int of	pro	duc-	•	
tion, .		-	-	-	-	-	-	67,069	3.31
Merchandise a	and other	articles	not	enun	ne <b>rate</b>	d ab	0 <b>7</b> 0,	113,113	5.58
Total ton	s carried,	_	_	_	_	_		2,023,797	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

United States Express Company.

They make their own rates.

1887.]

A general express business.

Freight is delivered at the Company's depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? In Michigan:

72.5 miles owned by M. L. S. & W. R'y Co.

132.6 miles owned by Western Union Telegraph Company.

### TRANSPORTATION COMPANIES.

### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Sleepers of Wagner Palace Car Company, New York, \$16,967.04.

### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

None.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

### KILLED.

May 24. Jas. Meagher, conductor, Ironwood, crushed while coupling cars. June 3. Thos. Donohue, miner, near Ironwood, intoxicated, walking on track, run over by cars.

July 25. Jas. Cavanaugh, trespasser, near Wakefield, asleep on track, run

over by cars.

August 27. Patrick Webb, brakeman, Marenisco, fell between cars.

September 9. J. Kelly, trespasser, near Ironwood, intoxicated, lying on track, run over by cars.

September 14. Geo. Robinson, brakeman, Marenisco, coupling cars.

November 1. Patrick Fletcher, tankman, Marenisco, on track intoxicated, struck by engine.

### INJURED.

January 16. Dennis Corbett, brakeman, Bessemer, hand caught in caboose door, finger hurt.

January 26. Jacob Verthage, brakeman, Watersmeet, attempted to get on

cars in motion, fell, injured foot and head.

January 29. Arthur Shingle, boy 6 years of age, Wake ield, in sleigh that attempted to cross track when train was within 20 feet of crossing, foot crushed, afterwards amputated.

February 9. C. Whitbeck, brakeman, Ironwood, coupling cars, finger

crushed.

March 1. T. Brenke, fireman, Gogebic, oiling valve, wrist burned.

March 3. Alex. Hankel, brakeman, Ironwood, coupling cars, lost end of thumb.

March 30. T. Bemsau, brakeman, Watersmeet, coupling cars, foot bruised.

March 31. John Spry, trespasser, State Line, stealing ride in coal car, arm
broken.

April 30. Geo. W. Torson, wiper, Ironwood, building fire in engine, hand burned.

April 30. Edward O'Neil, section laborer, Marenisco, nose bruised by lever of hand car.

May 26. John McGrau, trespasser, Ironwood, struck by engine, back injured.

June 1. C. J. Towesley, brakeman, Wakefield, coupling cars, lost finger.

July 4. Cyrus Deekes, brakeman, near Ironwood, wreck, back injured.

July 4. Lewis Curtis, passenger, near Ironwood, wreck, thigh fractured.

July 4. John Nath, wiper, wreck, thigh bruised and hip fractured.

July 4. Owen Welch, line repairer, near Bessemer, wreck, ankle sprained.

July 4. Thos. Feeney, fireman, near Bessemer, wreck, legs bruised.

July 4. David Gagney, passenger, near Bessemer, wreck, hip and ribs injured.

July 4. Patrick O'Brien, car repairer, near Bessemer, wreck, scalp wound, and knee injured.

July 4. Moses Jones, baggageman, near Bessemer, wreck, leg bruised.

July 20. Edward J. Kellogg, brakeman, Seimens, fell from train, two fingers crushed.

July 24. Timothy Jackman, brakeman, Wakefield, coupling cars, hand cut.

August 13. Wm. Knight, brakeman, Seimens, coupling cars, two fingers crushed.

September 6. O. Harman, switchman, Ironwood, coupling cars, thumb and finger bruised.

October 23. W. M. Hamilton, switchman, Wakefield, coupling cars, thumb and finger injured.

November 19. C. O. Mordt, carpenter, Bessemer, staying gave way, wrist and ankle sprained.

December 16. Henry Bates, switchman, Ironwood, side injured.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accidents.		Killed.		Injured.				
Causes of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
-Collisions				2	6			
Coupling cars		2			8	<i>-</i>		
Derailments								
Falling from trains		1			1			
Frogs								
Getting on and off trains					1			
Highway crossings								
Miscellaneous		1			6			
Overhead obstructions	.							
Trespassers on trains		 						
Trespassers on tracks	.		8					
Total		4	8	2	22			

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	-	_	7
Number of persons injured during the year,		-		_	27
Number of casualties purely accidental.	-	_		-	10

Number resulting from lack of caution, ca	relessness,	or miso	n-	
duct,		-	-	18
Persons killed or injured while intoxicated,		-	- •	2
Trespassers and tramps killed or injured,				4
Spicides.				_

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen		1	1
Brakemen	8	10	Ħ
Conductors	1		1
Engineers			
Firemen		1	1
Laborers		8	1
Shopmen		8	1
Yardmen		8	1
Not classified above	4	6	10
Total	7	27	84

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, Ss.

H. F. Whitcomb, General Manager, and W. R. Hancock, Auditor, of the Milwaukee, Lake Shore & Western Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. 8. OF R. R.] Signed, H. F. WHITCOMB, W. R. HANCOCK.

Subscribed and sworn to before me this 26th day of March, A. D. 1888.

[L. S.]

JOHN O. THAYER,

Commissioner in Wis. for State of Mich.

1

### ANNUAL REPORT

OF THE

### WABASH WESTERN RAILWAY COMPANY.

OPERATING THE DETROIT, BUTLER & ST. LOUIS R. R. AND THE BEL RIVER
R. R. FOR ACCOUNT OF THE PURCHASING COMMITTEE, CONTROLLING
THE OPERATION OF SAID DETROIT, BUTLER & ST. LOUIS R. R.,

For the Year ending December 31, 1887.

[Filed April 2, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, O. D. ASHLEY, New York. Vice Presidents:

EDGAR T. WELLES, New York.

JAMES F. HOW, St. Louis, Mo. Secretary, W. M. BEACH, New York.

Auditor, D. B. HOWARD, St. Louis, Mo.

Treasurer, JAMES F. HOW, St. Louis, Mo.

General Manager, CHAS. M. HAYS, St. Louis, Mo.

General Superintendent, J. S. GOODRICH, Chicago, Ill.

Chief Engineer, W. S. LINCOLN, St. Louis, Mo.

Superintendent of Telegraph, G. C. KINSMAN, Decatur, Ili.

General Passenger Agent, F. CHANDLER, St. Louis, Mo.

General Freight Agent, M. KNIGHT, St. Louis, Mo.

Attorney, W. H. BLODGETT, St. Louis, Mo.

### DIRECTORS.

O. D. ASHLEY, New York. EDGAR T. WELLES, Hartford, Conn. THOS. H. HUBBARD, New York. EFFINGHAM H. NICHOLS, New York.
C. J. LAWRENCE, New York.
JAS. F. HOW, St. Louis, Mo.
P. B. WYKOFF, New York.
RICHARD A. ELMER, New York.
CHAS. M. HAYS, St. Louis, Mo.

Term expires March 13, 1888. Elected March 13, 1888.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 7, 1887.

Date of annual meeting of stockholders,—Second Tuesday in March.

Fiscal year of Company ends December 31.

General offices of the Company are located at St. Louis, Mo.

### REMARKS.

This property was formerly a portion of the Wabash, St. Louis & Pacific Railway system, and known as the Detroit, Butler & St. Louis Railroad. For some years the affairs of the corporation have been in the hands of Receivers, and during the past year has been in part sold and the Michigan Division turned over to a purchasing committee, for whom, at the date of this report, it was operated by the Wabash Western Railway Company, by which corporation this report is made. It is incomplete in some matters, but until the status of the property is upon a permanent basis it is imprac cable to secure full details of report as contemplated by law.—Com. Railways.

### GENERAL EXHIBIT.

•				DEBIT	DEBIT.		
Total income,	,	-	<u>-</u>	\$1,038,202	33	<b>\$1,260,929</b>	04
Net income,	-	-	-		-	222,726	71
Interest on funded debt, and Ee Rentals of buildings, tracks, et		r ren -	tal,	\$153,150 118,857			
Balance,—deficit,	-	-	-	\$49,281	28		
Balance for the year, .	-	-	-	\$49,281	28		
Balance forward to next year,		-	-			49,281	28
				\$49,281	28	\$49,281	28

# ANALYSIS OF. EARNINGS.

## PASSENGER BARNINGS.

Roads.	Total Passenger Fares.	Express and Baggage.	Maile.	Other Sources.	Total.	Proportion for Michigan.	Per Mile of Road.	
Comprising Detroit Division:								
Detroit, Butler & St. Louis Railroad	\$189,077 34	89°,400 00	\$7,813.28	\$1,664 00	\$208,444 71			٠
Eel River Bailroad	106,406 24	8,600 00	2,964 04	1,249 94	116,220 22		_	
Chicago & Atlantic track	58,817 75				58,817 75	\$107,162 88		
Total passenger earnings.	\$62,801 83	000 000'6\$	\$18,277 32	<b>\$2,904</b> 08	\$377,982 68	\$107,162 88	\$1,864.77	

### PREIGHT EARNINGS.

Roads.	Total Traffic.	Other Sources. Freight Department.	Total.	Proportion for Michigan.	Per Mile of Road.
Comprising Detroit Division:					
Detroit, Butler & St. Louis Railroad	<b>\$492,678</b> 70	\$18,539 15	\$506,211 86		
Eel River Railroad	303,050 92	8,754 99	806,805 91		
Chicago & Atlantic track	59,885 81	462 92	59,848 28	\$247,472.28	
Total freight earnings	\$855,114 98	\$17,751 06	\$872,866 99	\$247,473 28	\$2,128 55

228	MICE	HIGAN RA	ilro	AD R	ETURI	NS.		[Dec. 8	31.
Total transports	ation earnir	1gs, _	-	-,	-	-	-	<b>\$1,250,848</b>	67
Transportation	earnings pe	r mile of	road	• -	84	4,483	33		
Total earni	ngs from o	peration of	road	l <b>,</b>	-	-	-	\$1,250,848	67
Total earnings proportion of total taxable examples Michigan,	axable earn arnings per	ings for l r mile of	Lichig	gan, in	354	4,483 4,631 4,483	28		
Income other th	an from ea		-	-		0,080			
Total incon	ne from all	sources,	-	-	-	-	-	<b>\$1,260,929</b>	04
Proportion of i	ncome for	Michigan,	•	-	35	4,631	28		
		NALYSIS	<b>ሰ</b> ሞ ምነ	PDFN	QTQ			•	
	CLASS 1.—	Maintenan	se of 1	Way d	ınd Bu	ilding	18.		
Repairs of road Renewals of rail Renewals of ties	la, -		-	-	-	-	-	\$118,892 • 31,014 31,111	23
Repairs of bridg Repairs of fence	ges, includi	ng culveri	s and	catt	le gua	rds,	-	12,620 11,712	21
Repairs of build			-	-	-	-	-	210	
Total,	- <b>-</b>	- •	-	-	-	-	-	\$205,561	20
C	LASS 2.—Me	zintenance	of Mo	tive I	Power o	and G	ars.		
Repairs of locor	notives,		-	_		-		<b>\$</b> 59 <b>,35</b> 0	52
Repairs of passe			-	-	-	-	-	34,596	
Repairs of freig	t cars,		-	-	-	-	-	52,760	97
Total,		- <b>-</b>	-	-	-	-	-	\$146,707	58
CLASS 8.—Conducting Transportation.									
Fuel for locomo	tives, _		_	-	-	_	_	<b>\$</b> 105,985	71
Water supply,			-	-	-	-	_	10,826	
Oil and waste,			-	-	-	-	-	5,112	
Locomotive ser			-	-	-	-	_	121,656	32
Passenger train	service,		-	-	_	-	-	22,421	98
Passenger train	supplies,		-		-	_	_	1,727	
Mileage of pass	enger cars,		-	-		-	-	12,996	01
Freight train se			-	-	-	-	-	67,265	
Freight train a	unnlies.							5 191	

Freight train supplies,
Mileage of freight cars,
Telegraph expenses (maintenance and operating),

5,181 00 4,331 00 21,543 58

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit, Mich., to Butler, Ind., August 15, 1881.

Total proportion of expenses for Michigan, \$294,343 38

Percentage of expenses to earnings, Net earnings per mile of road,'

**\$**762 17

### MAIN LINE.

### Known as Detroit Division.

In Michigan:				Miles. 10	00ths.	Miles, 100ths,
From Delray to State Line, In Ohio:	-	٠-	-	75	20	
From State Line to State Line, In Indiana:	-	-	-	28	95	
From State Line to Logansport.	_		_	102	<b>3</b> 5	
From Laketon Junction to Chicago,	-		_	122	80	
Logansport to Clymers,	-	-	-	6	00	
Total length completed,	-	-	-	-	-	335 30
Total length of road belonging to this Michigan,	Com	pany	in	25	20	
Aggregate length in Michigan of siding	- 3. 800	rs. a	nd	•0	20	
other tracks not above enumerated,	., -p-	-		26	00	
Aggregate length of tracks in Michigan this Company, computed as single track,	belon	ging	to -	101	20	
Gauge of track 4 feet 8½ inches.						
•						
Proprietary or Leased Roads Op	erated	by thi	s Com	pany.		
Name, description, and length of each:						
Detroit Union Depot track,	-	-	-		90	In Michigan. 3 90
Total miles operated by the Detroit D	i <b>v</b> isior	1,	-	279	00	79 10
Number of Bridges and Tr	estles i	in Mi	chiga	<b>r</b> .		
Combination bridges, number of, 3; agg Wooden trestles, number of, 2 42; agg:	regate regate	leng leng	th, fe	et,		480 5,109
75.4.1						
Total, 45;	-	-	-	-		5,589
Swing Bridges in 1	Hichigo	ın.				
How many on your line?	-	-	-	-		None.
Crossings—Railroad an	ıd Hig	hway.				
What railroads cross your road at grade in Michigan Central R. R., at West Detroit Lake Shore & Michigan Southern R. Adrian.	and ]	Delra	<b>y</b> .	•		· ·
Flint & Pere Marquette R. R., at Romul Toledo, Ann Arbor & North Michigan, a Cincinnati, Jackson & Mackinaw R. R.,	t Mila	in. tton.				

1001.]		** 11.						٠٠.		
What railroad and where? None. At what crossi None.		••								
Number of cre Number of cre	grisso ossins	s of	highv high	vays a	t grad	le in t de in	his St this	ate, State	- at	146
which there Number of cr	are g	ates c	or flag	men,	_	-	-	_	-	9
	•	-				-	-	-	-	None.
what pattern	or pa	ttern	s in u	se ?	-	-	<b>.</b>			None.
Number of cover, none;	rossin nnd	igs of	t nig ).	nways	OVE	or	unaer	ra111	OBO	1
Number of his	ghway	brid	ges, 1	8 feet	abov	e trac	k,	•	-	None.
Number of his	gh way	brid	ges, le	ess th	an 18	feet a	pove	track,	-	None.
Have safety-gu Are your frogs	ards	been (	erecte	dat d	ver-h	ead of	bstruc	tions!	74	None.
Session Law				-		roqui.	-	-	-	Yes.
How are they	treate	d?								
Wooden bloc	cks sp	oiked	in op	ening	8.					
				S	itation	<b>8.</b>				
Number of sta	tions	on w	hole l	ine.		_	_	_	_	49
Same in Michi				-		-	-	-	-	17
				· <b>E</b>	mploy	ės.				
Number of pe	rsons	regul	larly	emplo	yed o	n all :	roads	opera	ted	
by Company	, incl	uding	offic	ials,	_	-	-	-	-	
Same in Michi Classify your e	gan,	- v60 a	- nori	follow	ing li	at•	-	-	-	392
	_	<b>J</b> 03 a	s per	LOIIOW	.ng	50.				Number.
Baggagemen,	•	-	-	-	-	-	-	-	-	10
Baggagemen, Brakemen, Conductors,		-	-	-	-	-	-	•	•	62 <b>4</b> 0
Engineers	-	-	-	-	-	-	-	•	-	55
Engineers, Firemen, Laborers,	-	-	-	-	-	-	-	-	-	55
Laborers, .	-	-	_	-	-	-		_	-	250
onopmen,	-	-	-	-	-		-	-	-	135
Yardmen, Others.		-	-	-	-	-	-	-	-	39
Others,	-	-	-	-	-	-	-	-	-	187
			REPA	IRS A	ND R	ENEW	ALS.			
			F	encing	in Mi	chigan	<b>.</b>			
How many mil	es of	fenci	ng ha	<b>Ve V</b> 01	a ?	_	_	_	•	150.40
Give the number sides of your needed: Road all fen	ber o trac	f mil	es re	quired	to c	omple ne cou	te fer nties	nce be in wh	oth ich	



### Road Bed and Track.

	`			
Number of track sections in Michigan,	-	_	-	12
Average length of sections (miles)	-	_	-	6.8
Average number of men in each section gang,	_	_		6.14
Number of new ties put in whole line during the	year,	_		€0,639
Number of new ties put in track in Michigan,	•	_	-	<b>19,805</b>
Average number of new ties per mile of road,	-	_		290
Total miles of track laid with new rails,	_	_	-	0.10
•				

### Bridges and Culverts.

Amount of trestle work replaced with earth	during	the	year	
(linear feet),		-	-	None.
Timber culverts replaced during the year,	-	-	-	5
With timber,—number,	-	<u>:</u>	-	5
New bridges built during the year,—number,	_	-	_	1

Location,	Kind.	Material.	Month built,	Feet in Bength.
Two miles west of Delray	Pile	***************************************	February	68
Total		<u></u> -		63

### ROLLING STOCK.

The rolling stock of the Wabash Western Railway Company is used on the Detroit Division.

### MILEAGE, TRAFFIC, ETC.

Not kept separate for the Detroit Division.

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Pacific Express Company. General express business.

Railway Company receives a proportion of earnings.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 206.5 miles on Detroit Division Western Union Telegraph Co.

### TRANSPORTATION COMPANIES.

### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? Blue Line, \$1,178 31 Canada Southern Line, 710 24 Commercial Express Line, 146 24 Empire Line, . . . 64 99 Erie Dispatch, 271 19 Great Eastern Line, 4,224 95 525 93 303 51 Lackawanna Line, Midland Line, Midland Line,
Merchants Despatch Transportation Co., 1,570 34 5,341 36 National Despatch Line, Nickel Plate Line, . . 137 05 Red Line Transit Company, 1,089 57 Union Line, 791 84 White Line, 374 79 **\$16,730 31** Total.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

### KILLED.

October 12. F. M. Fenton, engineer, Detroit, Mich., while alighting from passenger coach slipped and fell under train. Lack of care.

November, 1. Henry George, citizen, Hand, Mich., struck by train while walking on track; gross carelessness.

### INJURED.

March 29. R. W. McGillicuddy, Eng. foreman, Detroit, Mich., right ankle broken, jumped from train, train broke in two, purely accidental.

March 24 Joseph Rice, trespasser, Adrian, Mich., playing around cars, fell under coal car, left arm crushed; carelessness.

April 6. James W. Wilson, car inspector, Delray, Mich., arm resting carelessly on drawheads, while engine was moving cars; lack of caution.

April 2. Allison J. Gunn, Detroit, Mich., collided while in a child's wagon

with a hand car, left leg bruised; carelessness.

April 27. H. E. Burnham, passenger, Milan, Mich., while walking under coal chute after leaving train, fell and hurt his knee; lack of proper caution.

August 12. Henry Cook, warehouseman, Detroit, Mich., while handling a

box of tin, box fell on his foot and bruised it; purely accidental.

August 10. A. D. Laden, Detroit, Mich., horse backed against engine, buggy was broken and Laden slightly bruised; mismanagement.

November 23. Chas. Pollek, section laborer, Delray, Mich., fell from hand car that had been fastened to a train by gang; carelessness.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

G		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.		
Collisions								
Coupling cars				ļ 				
Derailments								
Falling from trains	<u></u>	·			· · · · · · · · · · · · · · · · · · ·			
Frogs				¦ 	, . <b></b>			
Getting on and off trains		1		·	1			
Highway crossings				ļ		i 1		
Miscellaneous				i		 		
Overhead obstructions	,							
Frespassers on trains								
Frespassers on tracks	,			i 				
Total		1	1		5			

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year, .	_		_	2
Number of persons injured during the year,	-	-	-	8
Number of casualties purely accidental,	-	-	_	
Number resulting from lack of caution, careles	seers	, or	mis-	
conduct,	-	-	-	8
Persons, killed or injured while intoxicated,	-	-	-	
Trespassers and tramps killed or injured,	-	-	-	2
Suicides,	-	-	-	. —

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen	I		
Brakemen			
Conductors	·		<u></u>
Engineers	1	!	]
Firemen	 	 	, , 
Laborers		! 2	;
Shopmen	 		 
Yardmen		: 2	
Not classified above	! ' <b>.</b>		
	1		
Total	1	4	

STATE OF MISSOURI, SS. CITY OF ST. LOUIS,

James F. How, Vice President of the Wabash Western Railway Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Detroit Division operated by said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES F. HOW,

Vice President Wabash Western Railway. Subscribed and sworn to before me this 30th day of March, A. D. 1888.

MILLARD WATTS,

[L. S.]

Notary Public, City of St. Louis, Mo.

### ANNUAL REPORT

### OF THE

### PONTIAC, OXFORD & PORT AUSTIN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 2, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, GEO. W. DEBEVOISE, New York city.

Vice President, HUGH PORTER, New York city.

Secretary, FRANK H. CARROLL, Pontiac, Mich.

Auditor, W. C. SANFORD, Pontiac, Mich.

Treasurer, HUGH PORTER, New York city.

General Manager, CHARLES H. STONE, New York city.

General Superintendent, JAMES HOUSTON, Pontiac, Mich.

Chief Engineer, GEO. A. NETTLETON, Pontiac, Mich.

Assistant Treasurer, FRANK H. CARROLL, Pontiac, Mich.

General Pass. and Freight Agent, JAMES HOUSTON, Pontiac, Mich.

Attorney, A. C. BALDWIN, Pontiac, Mich.

### DIRECTORS.

GEO. W. DEBEVOISE, New York city.
HUGH PORTER, New York city.
CHARLES H. STONE, New York city.
WM. H. MURPHY, New York city.
C. J. WHITNEY, Detroit, Mich.
JAMES HOUSTON, PONTIAC, Mich.
FRANK H. CARROLL, PONTIAC, Mich.
A. W. LEROY, PONTIAC, Mich.

Term expires December 8, 1888.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 24, 1881.	
Number of stockholders at date of last election,	15
Number of stockholders in Michigan at same date,	9
Amount of full paid stock held in Michigan at same date,	<b>\$9</b> 00 00
Date of annual meeting of stockholders,First Monday in December.	
Fiscal year of Company ends December 81.	
General offices of the Company are located at Pontiac, Mich.	

### GENERAL EXHIBIT.

			DE	HT.	Cra	CREDIT.		
Total income,	-	-	<b>\$</b> 83,583	- <b>4</b> 3	<b>\$</b> 105,909	68		
Net income,	-	-		-	\$22,326	23		
Interest on funded debt,	-	-	90,000	00				
Balance for the year,	-	-	<b>\$</b> 67,673	77				
Balance (profit and loss) last year, Balance forward to next year,		-	253, <b>477</b> 	<b>32</b> -	321,151	09		
			\$321,151	09	\$321,151	09		
Amount authorized by charter or ar Par value of shares,	ticles \$10	of as 0 00 5,000			<b>\$1,500,000</b>	00		
Total amount paid in as per boo	oks of	the (	Company,	_	<b>\$</b> 1,500,000	00		
Paid in per mile of road owned pany,—miles, 100,	-		<b>\$15,000</b>	00				

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds	6 per cent	1912	New York city	\$1,500,000 00
Total funded debt			•••••	\$1,500,000 00

### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
		•
For equipment	·	
	******	
For renewals		, <b></b>
	· · · · · · · · · · · · · · · · · · ·	
		15,962 8
		\$396,605 8

		RI	CAPIT	TLAT	ION.					
Total funded debt, Total unfunded debt,	-	-	-	-	-	-	-	-	<b>\$1,500,000 396,605</b>	
Logar unrunuou debu,		-	-	•	•	-	-	-		
Total debt liabilit	ies,	-	-	-	-	-	-	-	<b>\$1,896,605</b>	86
Amount of debt liabil	ities	per n	aile of	road	<b>—100</b>	miles	١,	-	18,966	06
Total amount of stock					-				3,396,605	
Stock and debt per mi	le of	road	l, -	-	-		-	-	33,966	06
(	3 <b>e</b> ne	RAL	BALA	NCE	SHEE'	<b>T.</b> —D	R.			
Construction account,		-	_	-	_	_	_	-	<b>\$2,818,688</b>	44
Equipment account,	_	-	-	-	-	-	_	_	205,385	64
Cash items:									•	
Cash,	-	-	-	-	-	<b>\$</b> 19	,859	11		
Bills receivable	-	-		-	-	1	,489	04		

Due from agents, .

Materials and supplies, \_\_\_\_\_\_ Debit balances from companies and individuals,

Other assets:

27,202 67

2,829 87

\$7,427 87 19,774 80 24,178 02

1897.]	PONTIA	AC, OX	FORI	D & P	ORT	AUSTI	N RAILRO	VD (	co.	239
Income acco	unt,	-	-	-	-	-	<b>\$</b> 321,151	09		
Total,	-	-	-	-	-	<b>-</b> .	•. •	-	\$3,396,605	86
		GEN	ERA	L BAI	LANCI	E SHE	ET,—Cr.			
Capital stock Funded deb	k, _ t, _	. <u>.</u>	-	. <del>-</del>	-	-	: : .		\$,500,000 1,500,000	
Unfunded d Interest u Vouchers		- counts,	- -		-	<u>.</u>	<b>\$</b> 37 <b>4</b> ,580 22,025			
		Ĭ							396,605	86
Total,	-	<b>-</b>	-	-	-	-		-	<b>\$3,396,605</b>	86
		COST	OF	ROAD	AND	EQU:	IPMENT.			
		Pu	rchai	sed by	Prese	nt Cor	npany.			
When purch Original cos Amount exp Amount exp Total cost to Proportion of	t to presended a condect a	sent C since p since p of repo	ompa urch urcha ort,	any, o ase, a ase, a	ccoun ccount	t of c	onstruction	• -	18,598 5,475 <b>3</b> ,024,074	44 64 08
CHA	RGES A	ND CR	EDIT	or a	PROP	ERTY	DURING 'I	HE	YEAR.	
				MA	IN LI	NE.				
Right of wa New side tra New buildin	cks,	- - -	- - -	- -	- -	- -	: :	-	\$763 2,743 153	13
Total cl	arges t	o prop	erty :	accou:	nt as	above	,	-	\$3,660	63
Net addition	to pro	perty a	ccou	nt,	-	•		-	3,660	63
		A	NAI	YSIS	of e	ARNIN	1GS.			
			PA8	BENG:	ER BA	RNIN	98.			
Main line and Local fare Through	8, _	ches: - -	-	-			<b>\$</b> 34,294 1,146			
Total pa	ssenge:	r fares,	-	-	-	-	\$35,441	10		

Express and baggage, Mails,	-	-	-	-	\$2,279 4,562			
Total passenger earn	nings,	-	-	-		_	\$42,282	63
Proportion for Michig	an,	-	-	-	\$42,282			
Per train mile, Per mile of road,	-	-	•	-	0			
Per mile of road,	•	•	-	-	422	83		
	F	REIGH	T EAI	BNING	8.			
Main line and branches:		•						
Local traffic,	-	-	-	-	<b>\$</b> 58,911	71		
Through traffic,	-	-	· -	-	4,667	34		
Total traffic,		-	-	-	\$63,579	05		
Total freight earnin	gs,	-	-	-	- , -	-	<b>\$</b> 63, <b>5</b> 79	05
Proportion for Michigan		_	_	_	\$63,579	05		
Per train mile,	, - -	_	_	_	1	21		
Per mile of road,	-	-	-	-	635	79		
Total transportation	earn	ings,	-	-	<b>-</b> , <b>-</b>	-	\$105,861	68
Transportation earnings Transportation earnings Miscellaneous receipts frother than for transpo	per om op	train eratin	mile gacco	unt,	<b>\$1,058</b>	62 73.11	L	
From other sources,	-	-,		-	48	(0		
Total,	-	-	-	-	48	00		
Total earnings from	opera	tion o	f roa	đ,		-	<b>\$</b> 105,909	68
Total earnings per mile of Total earnings per train	of roa	d, _	-	-	<b>\$1,059</b>	10 73.14	1	
Proportion of taxable ea Total taxable earnings p	rnings				105,909		•	
Michigan,	- 101 III	- rra OT	rosu -	тп	1,059	10		
Total income from a	ll sou	rces,	•	-		-	\$105,909	68
Proportion of income for	Mich	igan,	-	-		-	105,909	68

### ANALYSIS OF EXPENSES.

### CLASS 1.—Maintenance of Way and Buildings.

•										
Repairs of road	way and t	track,	_	_	_	-	_	_	\$22,105	60
Renewals of rai	ils	-	_	-	_	_		_	333	
Renewals of tie		_	-	_	_	-	-	-		35
Repairs of bridg	rog inalr	dina	on lwo	eta an	d cott	- Ho en	orda -	-	1,484	
Depoise of female	868, 10010	mink	GUIVE		u can	ne gu	arus,	-		
Repairs of fence	ss, rosa c	LORRID	gs, ar	id Rigi	us,	-	-	-	1,070	
Repairs of build	ings,	-	-	-	-	-	-	-	1,165	84
m . 1										
Total,		-	-	-	-	-	-	-	<b>\$</b> 26,204	05
_						_				
C	LASS 2.—	Mainte	enance	of Me	otive .	<i>Power</i>	ana C	a <b>rs.</b>		
Danaina of lasan									A0 F80	00
Repairs of locor	nonves,	-	-	•	-	-	-	-	\$6,576	
Repairs of passe Repairs of freig	nger care	, -	-	-	-	-	-	-	1,423	
Repairs of freig	ht cars,	-	-	-	-	-	-	-	2,659	43
Total,		-	-	-	-	-	-	-	<b>\$10,659</b>	53
	_	_								
	CLA	ss 8.—	·Condi	ucting	Trans	porta	tion.			
Fuel for locomo	tives.	_	_	_	_		_	_	\$8,815	84
		-	_	-	-	•	-	-	962	
Water supply, Oil and waste,	-	-	-	-	-	-	-	-	880	
Oil and waste, Locomotive serv Passenger train Passenger train	ioo	-	-	-	-	-	-	-	6,104	
Decree was train	100, .	-	-	-	-	-	-	-		
Passenger train	service,	-	-	-	•	-	-	-	2,531	
Passenger train	anbbues,	-	-	-	-	-	-	-	219	
mileage of passe	nger can	5, .	-	-	-	-	-	-	1	
Freight train se	rvice,	-	-	-	-	-	-	-	3,191	
Freight train su Mileage of freig	pplies,	-	-	-	-	-	-	-	85	
Mileage of freig	ht cars,	-	_	-	-	-	-	_	1,061	40
Telegraph expen	ses (mai:	nten <b>a</b> r	ice an	id ope	rating	g),			2,109	69
Damage and los	a of freig	rht an	d bag	72820.	_	_	_	-	25	22
Damages to prov	ertv and	cattle	в. Т		_		_	_	287	96
Personal injuried Agents and stati	8.	_		_	_	_	_	_	2	
Agents and stati	on servic	Α.	_	-			-	_	5,489	
Station supplies,	011 501 110	~, -	•	-	-	•	•	•	645	9.5
Descrion supplies,	•	•	-	•	-	-	-	-	040	00
Total.							_		<b>\$29</b> 414	20
Total,		-	-	-	-	-	-	-	\$32,414	ov
		Ct. Agg	4	i eneral	Emm	mese				
		CLASS	2. 0	oreor de	Laupt	,,, <del>,,,,</del> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Salaries of the g	eneral of	ficers :	of the	Com	nan v.				\$6,150	00
Salaries of clerk	g in gene	ral of	fices.		PJ,	, -	•	•	1,928	
T	_				-	•	-	-	2,182	
Stationers and r	- mintina	-	-	-	-	-	-	-	1,047	
Stationery and p Outside agencies	TITIONER,		-	-	•	-	•	-	1,047	
Outside agencies	BUU BUV	GL rigil	ıŖ,	-	-	-	-	-		
Contingencies,		-	-	-	-	•	-	-	720	14 14
Taxes,		-	•	-	-	•	-	-	2,118	19
m . 1								,	A14 00°	
Total,		-	-	-	-	-	-	-	<b>\$14,305</b>	57

### RECAPITULATION OF EXPENSES.

			Per Cent of Expenses.		
Maintenance of way and buildings,	-		31.35	\$26,204	05
Maintenance of motive power and cars.	_	_	12.75	10,659	
Conducting transportation,		_	38.78	32,414	
General expenses, including taxes,	-	-	17.12	14,305	
Total operating expenses and taxes,	-	•	100.00	<b>\$</b> 83,583	45
Operating expenses and taxes per train for trains earning revenue (144,798 m Proportion of operating expenses and Michigan:	iles),	_	<b>\$</b> 0 57.79	3	
Main line,	-		83,583 45		
Total proportion of expenses for Mic	higan	, -		\$83,583	45
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	- -	8.92 - -	\$223 26 15 42		

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Pontiac, Mich., to Caseville, Mich., October 8, 1883.

	MA	IN LIN	E.			Miles, 10	Oths.	Miles, 100ths.	
In Michigan: From Pontiac to Caseville,	-	-	-	-	-	100	20		
Total length completed,	-	-	-	-	-	-	_	100 20	
Total length of road belonging Total length of road belong	g to t	his Cor	npa Co	ny, mnany	- in	-	-	100 20	
Michigan,	•	-	-		-	100	20		
Aggregate length in Michiga other tracks not above enu	merat	ed, ¯		•	-	6	37		
Aggregate length of tracks in this Company, computed as Gauge of track, 4 feet 84 incl	sing			onging -	to -	-	•	106 37	
Gauge of Mack, + 1000 og inch	100.				7	Cotal Mil	les. I	n Michigan.	
Total miles operated by the C	ompa	any,	-	•	-	100	20	100 20	
Number of Bridges and Trestles in Michigan.									
Wooden bridges, number of, Wooden treatles, number of,		aggreg aggreg						210 1,510	
Total,	21;	-	•	•	•	-		1,720	

### Draw Bridges in Michigan.

How many on y	our lin	ю?	-	-	-	-	-	-	-	None.
•		Cros	sings-	-Rai	Iroad	and E	Tighwa	y.		
What railroads Michigan Cer Port Huron & Saginaw, Tus What railroads and where? Over grade: Chicago & Gr Under grade: None. At what crossin None. Number of cross	ntral R. North cola & cross y rand Tr	R., nwest Hure our i  unk inter	at O tern on R road R. R locki	xford R. R. R., eithe R, at	l. , at C at Be r over Imla and der	Cliffor rne Ju r or u y City railing	d. unctionder y	on. vour g	rade in	this State,
Number of cros	ssings o	of hi	ghwa	ys at	grad	le in	this	State	at	None
which there a Number of cros	re gare sings s	s or it wh	nagu ich 1	here	are e	lectri	or a	toma	tic	None.
signals, _			_	-	-	_		_	-	None.
Number of cros 1; under,—)	sings of	fhig	hwa	ys ove	er or t	ınder	railro	o) ba	ær,	1
Number of high	hway b	ridge	s, 18	feet	above	trac	k,	-	-	ī
Number of high	hway b	ridge	8, le	ss the	in 18	feet a	bove 1	rack	, -	None.
Have safety gus Are your frogs s	ards bec	er ar	ectec aila h	lato Jock	ver-n	eau o reanir	ostruc ed h <del>v</del>	tions Act 1	r _ 74.	Yes.
Session Laws		• • • • • • • • • • • • • • • • • • • •	-	-	-	- -	- -	-	-	Yes.
How are they to Space between		filled	l wit	h woo	od blo	ocking	<b>g</b> •			
				St	ation	<b>3.</b>				
Number of stat			ole li	ne,	-		-	-	-	22
Same in Michig	an, .	•	-	-	-	-	-	-	-	22
				En	nployé	is.				
Number of per	sons re	gular	ly er	nploy	ed or	all 1	roads	opera	ted	
by Company,	includ	ing (	officia	als,	-	-	-	-	-	115
Same in Michig	an, .		•	-	•	-	-	-	-	115
Classify your en	nployé	8 88 ]	per f	ollow	ing li	st:				Number.
Baggagemen,			-	-	-	-	-	-	-	2
Brakemen,			•	-	-	-	-	-	-	4
Conductors, Engineers,		•	-	-	-	-	-	-	-	3
Engineers,	<b>'-</b> -	•	-	-	-	-	-	-	-	3

244	MIC	HIG	AN RA	ILRO	AD R	ETUR	N8.		[Dec. 81.
									Number.
Firemen,	-	-	-	_	_	_		_	3
Laborers, Shopmen, Yardmen, Shopmen	-	-	-	_	_	-	-	-	55
Shopmen,	_	-	-	-	-	-	-		20
Yardmen, _		-	-	_•	-	-	-	-	
Others,	-	-	-	-	-	-	-	-	25
		REPA	IRS A	ND R	ENEV	VALS.			
		F	encing	in Mi	chigar	<b>.</b> .			
II man milas ad		<b>.</b> .		_ 9					108 2
How many miles of	f mile	ig na	we you	u: +o o	- omnl	ota fa	naa ha	+h	187.5
Give the number of sides of your trace									
needed:									6
Lapeer county,	-	-	-	-	-	-	-	-	.3
Tuscola, Huron county, _	-	-	-	•	-	-	-	-	4.5 7.7
nuron county, -	-	-	•	-	-	-	-	-	
Total miles, -	-	-	•	-	-	-	-	-	12.5
		Ro	ad Be	d and	Traci	k			
		100	<b>aa</b> 20	a ana	1700	••			
Number of track se	ctions	in M	ichiga	ın,	-	-		_	16
Average length of a	section	s (mi	les),	-		_	-	_	6.26
Average number of	men i	n eac	h sect	ion g	ang,	-	-	_	3
Number of new ties	put in	ı who	ole line	e duri	ng th	e year	, -	-	1,114
Number of new ties	put in	trac	k in 1	<b>L</b> ichig	gan,	-	-	-	1,114
Average number of	new ti	es pe	r mile	of re	oad,	-	-	_	11.14
New rails put in tra Steel [tons 1.25].	ick,	-	-	-		-	-	-	5
Steel [tons $1.25$ ]	, miles	,		-	-	-	-	-	0.015
Total miles of track	k laid	with	new r	ails,	-	-	-	-	0.015
ı		В	ridges (	ana Ci	uverte				
Amount of trestle v	vork re	plac	ed wit	h ear	th dr	iring	the ve	ar	
(linear feet), .	-	٠.	-	-	-	-	- "	_	None.
Timber culverts rep	laced d	lurin	g the	year,	_	_	_	_	1
With timber,-n						_		_	1
New bridges built d	uring i	the y	ear,	-	-	-	-	-	None.
		ROI	LING	STOC	K.				
				~~~			Numl	er.	Present
Number of locomoti	ves of	more	than ?	30 toni	s weig	ht.			Estimated Value.
exclusive of tend				_	<b></b> -	, <i>y</i>		3	\$18,000 00
Number of locomo		f 20	to 30	tons	weig	ht.		-	
exclusive of tend		•	-	-	-	-		2	10,000 00
Total,	_			-				5	\$28,000 00

Number of passenger cars 8-w	rhaal	inalu	dina	Number.	Present Estimated Value.
official cars,	11001,	IHCIU	TITTE	~	<b>A</b> 00 000 00
	-	-	•	7	\$22,000 00
Number of express and baggage c	ars, _	-	-	1	2,000 00
Number of box freight cars,	-	-	•	45	18,000 00
Number of stock cars,	-	-	-	4	1,550 00
Number of platform cars,	-	-	-	61	14,140 00
Number of conductors' way cars,	_	_	-	1	375 00
Other cars as follows:					
Snow plow,	-	-	-	1	800 00
Total,	-	-	-	120	<b>\$</b> 86,865 00
Number of locomotives equipped v	with po	wer b	rakes,	3	
Number of passenger-train cars	equip	bea .	With	•	
power brakes,			-	8	
Number of freight cars equipp	oed wi	th po	Wer		
brakes,	-		-	None.	
What patterns of power brakes he and number of locomotives and Westinghouse automatic air brakes. Are your freight cars being equipp Act No. 147, Session Laws of 18 Yes.  What pattern or patterns have y	cars w ke. ed with 885?	rith es	ich? matic	•	s required by
Blocker.	ou uuo	pteu 1	or use:	•	
, Blocker. MILEAGE		•			
, Blocker. MILEAGE		- FFIC,			
, Blocker. MILEAGE	E, TRA	FFIC,			25.004
, Blocker.  MILEAGE  Tro  Miles run by passenger trains during	E, TRA	FFIC, eage. year,			65,324
, Blocker.  MILEAGE  Tro  Miles run by passenger trains durin  Miles run by freight trains during	E, TRA	FFIC, eage. year,			34,728
, Blocker.  MILEAGE  Tro  Miles run by passenger trains during	E, TRA	FFIC, eage. year,			
, Blocker.  MILEAGE  Tro  Miles run by passenger trains durin  Miles run by freight trains during	E, TRA	FFIC, eage. year, ar,			34,728
MILEAGE  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains	E, TRA	FFIC, eage. year, ar,			34,728 44,746
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning	E, TRA	FFIC, eage. year, ar,			34,728 44,746
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning	E, TRA	FFIC, eage. year, ar,		 	34,728 44,746 ————————————————————————————————————
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning  . Pass	E, TRA	FFIC, eage. year, ar,	ETC.	d Mile	34,728 44,746 ————————————————————————————————————
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning	E, TRA	FFIC, eage. year, ar,	ETC.	   d Mile	34,728 44,746 ————————————————————————————————————
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning  Pass  Number of through passengers car.	in Mil.  ing the the yea  rever  enger I  ried,	FFIC, year, ar, nue, raffic.	ETC.	  d mile 52 95	34,728 44,746 ————————————————————————————————————
MILEAGE  Tro  Miles run by passenger trains during Miles run by freight trains during Miles run by mixed trains  Total mileage of trains earning  Pass  Number of through passengers carried	ried,  gers ca passen h pass rough cal pass	rried ger, passen	umbers an Quantities.  90 70,4 71,44 one mile		34,728 44,746 ————————————————————————————————————

### Freight Traffic.

	1	reigh	it Tra	iffic.					
Number of tons of through Number of tons of local fr				d, 	3,6 61,1		•		
Total tons of freight of	arrie	d,	-	-	64,7	63			
Total mileage of through f Total mileage of local freig		t, -	-	-	-	. ,	363,8 2,271,9		
Total freight mileage,	or tor	18 C&I	rried	one n	ile,	- 5	2,635,7	70	
Average ton haul for throu	gh fr	eigh	t,		-		100	)	
Average ton haul for local	freigh	ıt,	-	-	_	-	37	7.2	
Average ton haul for all fre	ight.	-	_	_	_	_	4(	).7	
Average amount received for	or ead	ch to	n hai	al.	_	_	_	{	<b>\$</b> 0 98
Average rate per ton per m	ile re	neive	ad for	r throi	oh fr	eight	_	•	01.28
Average rate per ton per m								•	02.59
								-	
Average rate per ton per m	iie, re	3C61 V	9U 10	ram m	eignt,	-	-	-	02.41
Freight	Forwa	ırded	at M	lichiga	n Stat	ions.			Forwarded, Tons.
Grain,	-	-	-	-	-	-	-		10,368
Flour,	-	-	-	-		-	-		1,412
Animals, . Other agricultural products Lumber and forest product	-	-	-	-	-	-	-		1,594
Other agricultural products	3,	_	-		_	-	_		7,514
Lumber and forest product	8.	_	_		_	_	-		27,035
·Coal.	_	_	_	_	_	_	_		5,423
Animals, - Other agricultural products Lumber and forest product Coal, Plaster, lime and cement, Salt	_	_	_	_	_		_		504
Salt,	-	-	•	-	-	•	-		2,052
Salt, Stone, brick and sand, Merchandise and other arti	•	-	•	-	•	-	-		444
Marshandisa and ather arti			- 	- natad	- han		-	-	_
Merchandise and other arti	cres 1	10t e	num	eratea	apove	,	-	•	8,417
Total forwarded,	-	-	-	-	-	-	-	-	64,763
Tonnage of	Arti	cles I	rans <u>p</u>	orted-	–Entir	e Roo	ıd.	•	
								ns.	Per Cent.
Grain,	_	-		-	_	-	10,	368	16.01
Flour,	_	_	_	_	_	_		412	2.18
Animala.	_	_	_	-	_		-	594	2.46
Other agricultural product	<u>-</u>	-	-	-	-	-		514	
Tumber and ferest mades	, -	-	-	-	-	-			
Other agricultural product Lumber and forest product	,	-	-	-	-	-	•	035	
Coal, Plaster, lime and cement,	-	-		-	-	-		423	8.37
	-	-	-	-	-	-		504	.78
Salt,	-	-	-	-	-	-	•	052	3.17
Stone, brick and sand,	-		-		-	-	, ' 4	144	.69
Merchandise and other are	ticles	not	enun	nerate	d abo	ve,	8,4	117	13.00
Total tons carried,	-	_	-	_	-	_	64,	763	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

One and one-half, and one and one-tenth first-class freight rates, and half fare for messengers. General express business. Take their freight at depot.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

One hundred miles. 'Owned jointly by this Company and Western Union Telegraph Company.

STATE OF MICHIGAN, SS. COUNTY OF OAKLAND,

James Houston, General Superintendent, and W. C. Sanford, Auditor, of the Pontiac, Oxford & Port Austin Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES HOUSTON,

Subscribed and sworn to before me this 31st day of March, A. D. 1888.

[L. s.]

FRANK H. CARROLL,

Notary Public, Oakland Co., Mich.

W. C. SANFORD.

### ANNUAL REPORT

### OF THE

### SAGINAW, TUSCOLA & HURON RAILROAD COMPANY,

For the Year ending December 31, 1887.

### [Filed April 8, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WILLIAM L. WEBBER, East Saginaw. Vice President, GEO. W. MORLEY, East Saginaw. Secretary, E. T. JUDD, East Saginaw. Auditor, C. M. RICE, East Saginaw. Treasurer, E. T. JUDD, East Saginaw. Superintendent, M. B. WILKINSON, East Saginaw.

### DIRECTORS.

WM. L. Webber, East Saginaw.
Geo. W. Morley, East Saginaw.
E. T. Judd, East Saginaw.
J. W. Howry, East Saginaw.
H. C. Potter, East Saginaw.
Sewell Avery, East Saginaw.
J. S. Estabrook, East Saginaw.
Term expires May 17, 1888.

### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,-Fe	ebru <b>a</b>	ry 24	, 188	1.	
Number of stockholders at date of last election,	-	_	-	-	182
Number of stockholders in Michigan at same date					197

Amount of full paid stock held in Michigan at same date (shares),

Date of annual meeting of stockholders,—May 17, 1888.

Fiscal year of Company ends December 31.

General offices of the Company are located at East Saginaw, Michigan.

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## GENERAL EXHIBIT.

			DEBIT.		CREDIT.	
Total income,	-	-		-	\$81,889	94
Total expenses, including taxes,	-	-	_ \$61,112	79		
Net income,		-		-	\$20,777	15
Interest on funded debt,	. <u>-</u>	-	- 11,400 - 21,591		•	
		•	\$32,991	59		
Balance for the year, Balance (profit and loss) last year	• •	-	\$12,214 - 11,145			
Balance forward to next year,	, - -	-		<b>~</b> -	23,359	65
`	1		<b>\$</b> 23,359	65	\$23,359	65
ANALYSIS	OF CAI	PITAL	STOCK.			
Amount authorized by charter or a	articles \$100		ociation,	-	<b>\$</b> 600,000	00
No. of shares issued,	•					
Amount paid in on common,  Amount paid in on shares not is	_	_	\$123,200	00		
ber, 5),	-	-	130	00		
Total amount paid in, as per	books o	f the	Company,	-	123,330	ÓO
Paid in per mile of road owned pany,—Miles, 66.57,	by C	om- -	<b>\$1,852</b>	6 <b>4</b>		

## MICHIGAN RAILROAD RETURNS.

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage	6 per cent	Sept. 1, 1921.	New York	\$190,000 00
Total funded debt			••••••	\$190,000 00

## UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		\$313,652 86
		80,210 14
		29,563 17
		12,434 01
Total unfunded debt		\$385,859 68

## RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	<b>\$</b> 190,000 385,859	
Total debt liabilities,	-	-	-	-	-	-	-	\$575,859	68
Amount of debt liabilities	per :	mile (	of roa	d,—66	6.57 n	iles,	-	8,650	43
Total amount of stock and Stock and debt per mile or	debi froa	t, d,	-	-	-	- -	-	\$699,189 10,503	

# GENERAL BALANCE SHEET,—Dr.

Construction account,

Equipment account, \_

							•
Cash items:							
Cash,	-	-	-	_	_	\$4,543 02	
Bills receivable,	_	-	_	-	_	917 00	
Due from agents,	_	-	_	_	-	47 29	
							5 507 31

519,460 19

104,120 17

	sup	plies,						5,905			,
Debit balance	froi	n com	panie	s and	indiv	iduals,		1,326			
Bay Port Hot	el,		-	-	-	-		2,129			
Bay Port Qua	rries	۰, ا	-	-	-	-		37,381			
Bay Port Hot Bay Port Quar Profit and loss	В,	-	-	-	-	-	5	23,359	65		
				•			_		_	\$70,102	01
Total,	-	-	-	-	-	•	-	-	-	\$699,189	68
		GE	ENER	AL BA	LAN	CE SH	EET	,—Cr.			
Capital stock,	_	_	_	_	_	_	_	_		123,330	00
Funded debt,	_		_	_		_	_	_	_	190 000	
Infunded debt:	:	_	-	٠.	-	_	-	-	_		•
Interest unpai	id (d	lue M	arch	1st. 1	888).	_	1	83.800	00		
Interest unpai Vouchers and	acc	ounts		,	-	_	38	32,059	68		
			, -				_		_	385,859	68
Motol										\$699,189	
Total,	-	-	•	-	-	-	-	-	-	<b>\$</b> 099,109	UC
•										_	-
Total expended	for	const	ructio	n and	equi	p <b>m</b> ent,		_	-	ilt by Compa \$623,580	-
Total Cost for Cor Total expended Average cost po 66 57 miles.	for er 1	const	ructio	n and ad (n	equi	p <b>m</b> ent,		_	-	\$623,580	36
Total expended Average cost pe 66 57 miles,	for er 1	const nile	ructio	n and ad (n	equi	p <b>m</b> ent,		_	-	_	36
Total expended Average cost pe 66 57 miles,	for er 1 ost 1	construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the constr	ruction of ro	on and ad (n	equi ot in	pment, icludin - - PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580	36
Total expended Average cost pe 66 57 miles, Proportion of co	for er 1 ost 1	construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the constr	ruction of ro	on and ad (n	equi ot in	pment, icludin - - PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR.	36 29 36
Total expended Average cost pe 66 57 miles, Proportion of co	for er 1 ost 1	constraint of Mi	ruction ro	on and ad (non, on, on, on, on, on, on, on, on, on,	equi ot in PRO	pment, icludin - - PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR.	36 29 36
Total expended Average cost pe 66 57 miles, Proportion of co	for er 1 ost 1	constraint of Mi	ruction ro	on and ad (non, on, on, on, on, on, on, on, on, on,	equi ot in PRO	pment, icludin - - PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345	36 29 36 42
Total expended Average cost po 66 57 miles, Proportion of co CHARGE Side tracks, Miscellaneous, New buildings.	for er i ost i	const mile for Mi	ruction for ro	on and ad (n an, -	equi ot in PRO	pment, cludin PERTY INE	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345 1,267	36 29 36 42 36
Total expended Average cost po 66 57 miles, Proportion of co CHARGE Side tracks, Miscellaneous, New buildings.	for er i ost i	const mile for Mi	ruction ro	on and ad (non, on, on, on, on, on, on, on, on, on,	equi ot in PRO	pment, icludin - - PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345 1,267 68	36 29 30 49 30 00
Total expended Average cost po 66 57 miles, Proportion of co CHARGE Side tracks, Miscellaneous, New buildings, New fences, New locomotive	for er 1 ost 1	constraint of Mi	ruction for ro	on and ad (n,,,,,,, .	equi ot in PRO	pment, PERTY	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345 1,267 68 10,743	36 29 36 42 30 65
Total expended Average cost pe 66 57 miles, Proportion of co	for er 1 ost 1	constraint of Mi	ruction for ro	on and ad (n an, -	equi ot in PRO	pment, cludin PERTY INE	g si	dings) - -	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345 1,267 68	36 29 36 42 30 66
Total expended Average cost po 66 57 miles, Proportion of co CHARGE Side tracks, Miscellaneous, New buildings, New fences, New locomotive	for er 1 ost 1	constraint of Mi	ruction ro	on and ad (n an, TS TO MA)	equi ot in PRO IN LI	pment, cludin PERTY INE	. DU	dings)	<del>, -</del> -	\$623,580 9,367 623,580 YEAR. \$6,484 345 1,267 68 10,743	36 29 36 42 30 69 30

# ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

		IA	OMMG	1316 D/	7 110 11/ 17	u dio.				
Main line and branc	hes:									
Local fares,	_	_	_	_	_	_	_	_	\$29,465	23
Through fares,	_	_	-	_			_	_	5,497	
,										
Total passenger	fares	· -	-	-	-	-	-	-	<b>\$34</b> ,963	10
Express and baggs	AGA.								405	83
Mails,	-B <sup>-</sup> ,	•	•	•	-	_	-	-	3,082	
	•	•	-	•	-	-	-	•		
Total passenger	earni	ings,	-	-	-	-	-	-	<b>\$</b> 38,451	70
Proportion for M	ichigs	an.	•			<b>\$</b> 38	8.451	70		
Per train mile.	-о	,	-	-	-	•	0	42		
Per train mile, Per mile of road,	-	•	-	-	-		577	61		
101 11110 01 10111,	-	•	•	-	-		•	. 01		
Main line and branc	hou.	FR	EIGHT	r ear	NING	<del>1</del> 8.				
Local traffic,						\$40	,825	80		
Through traffic,	-	-	-	-	•		2,219			
Infough trame,	•	-	•	-	-	^				
Total traffic,	-	-	-	-	-	<b>\$4</b> 3	,045	59		
Total freight ea	rning	s,	-	-	-	•	-		43,045	59
Proportion for Mic	higar	n.	_		_	\$43	,045	59		
Per train mile,	B	-,	_	_	_	V 20	,	98		
Per mile of road,	-	-	-		_		646			
Total transportation	earni	ngs.	-	_	_	_	_	-	<b>\$</b> 81,497	29
Transportation earni	ngs p	er m	ile of	road.	_	1.22	4 23	} _	,	
Transportation earni	ngs p	er tra	in m	ile.		_,		.15		
Miscellaneous receipt	s fron	n ope	rating	2 8CCO	unt.		•			
other than for tran	sport	ation	. as f	ollow	8:					
From telegraph,	-	-	-	-	-	39	2 65	<u> </u>		
Total,	-	-	-	-	-	-	-	-	392	65
Total earnings f	rom o	perat	ion o	f road	l,	-	-	-	\$81,889	94
Total earnings per m	ila of	Fnad				\$1,23	0 13			
Total earnings per tr	ain w	ila	•	-	-	Ψ±,~υ		.44		
Total taxable earnin	ora in	Mick	igar	-	-	81,889		***		
	•		•		•	<b>5</b>	. v <del>i</del>		<b>A</b> 01 000	
Total income fro	m all	Bour	ces,	-	-	-	-	-	<b>\$</b> 81,889	<b>34</b>
Proportion of income	for l	Michi	gan,	-	-	-	•	-	81,889	94

## ANALYSIS OF EXPENSES.

# CLASS 1. - Maintenance of Way and Buildings.

Repairs of road Renewals of ra Renewals of tie Repairs of brid Repairs of fence Repairs of buil	ils, 8, lges, i 88, ro	nolud ad cro	ing c	- alveri	ts and	- - d cattl	- le gu	ards,	•	\$14,546 2,070 1,566 357 380 145	66 20 81 11
Total,		, -	_	_	_	_	-		-	\$19,067	
Total,	•	-	-	-	•	-	-	-		<b>Φ19,00</b> 7	æ i
	CLASS	2.— <i>I</i>	[ainter	iance	of Mo	tive P	ower	and Co	ırs.		
Repairs of loco	matin	.00								<b>4</b> 0 040	OΑ
Repairs of pass	THOU A	06,	-	-	-	-	-	-	-	\$2,842	
Densire of frei	епйег	Cars,	-	-	-	-	-	-	-	1,506	
Repairs of freig	gni ca	rs,	-	-	-	-	-	•	-	2,747	UO
Total,	-	_	-	-	-	_	-	-	_	<b>\$7,</b> 095	75
	~		. a.		· ///-		.44.				
	C	LASS 3	.—U01	iaucti	ng 11	anspor	rano	n.			
Fuel for locome	otives.	_			_	_	_			<b>\$</b> 6,533	82
Water supply,	_		_	_	_		-	-	-	365	
dil and weste			-	_	-	_		-	_	638	
Locomotive ser	vice.	•	-	•	-	-	-	-	-	7,546	
Locomotive ser Passenger train Passenger train	SAPV	ice	•	-	•	•	•	•	-	3,059	
Passanger train	gunn	lies	-	•	-	-	-	-	-	300	
Mileage of per	son gor	1100,	-	-		-	•	-	-	43	
Mileage of pass Freight train s	eenker eenker	Cars,			-	-	-	-	•	2,436	
Freight train s		,	-	-	-	-	-	-	-		
Telement come	uppne	38, '	_	•		- 4:		-	-	42	
Telegraph expe								-	-	193	_
Damage and lo	88 OI 1	reign	tana	bagg	gage,	-	-	-	-	5	
Damages to pro	operty	and	cattle	,	-	-	-	-	-	57	
Agents and stat	tion se	ervice,		-	-	-	-	-	-	6,358	
Station supplies	8,	-	-	-	-	-	-	-	-	238	68
Total,	-	_	-	-	-	_	-	-	_	\$27,821	00
		c	LASS 4	4. — G	eneral	Expen	868.		,		•
Salaries of the					comp	any,	-	-	-	<b>\$2,95</b> 0	00
Salaries of clerl	ks in g	genera	d offic	<b>.08</b> ,	-	-		-	-	677	23
Law expenses,	-	-	-	_	-	-	-	-	_	69	
nanrance.			-	-	_	•	_	-	_	<b>3</b> 3 <b>4</b>	04
Stationery and	printi	ng,	•	_	-	-	_	-	_	736	
Outside agencie	s and	adve	rtisin	ζ,	-	-	-	-		135	91
Contingencies,	_	_	. '		_	_	_	_	_	554	
Taxes,	•	-	_	-	-	-	-	-	-	1,671	
Total,	-	-	_	_	_	_	_		-	* \$7,128	77

## RECAPITULATION OF EXPENSES.

				Per cent of Expenses.		
Maintenance of way and buildings,	-	-	-	<b>51.20</b>	<b>\$</b> 19,067	27
Maintenance of motive power and car	8,	-	-	11.61	7,095	75
Conducting transportation,	-	-	_	45 52	27,821	00
General expenses, including taxes,	-	-		11 67	7,128	77
Total operating expenses and taxe	95,	-	•	100.00	\$61,112	79
Operating expenses and taxes per road,—66.57 miles,	-	_		<b>\$</b> 918 02		
Operating expenses and taxes per train for trains earning revenue,—135,48	7 mile	98,		0 45.10		
Proportion of operating expenses a Michigan:	and t	8Xes	for			
Main line,	-	-	-	61,112 79		
Total proportion of expenses for	Mic	higan	, -		\$61,112	79
Percentage of expenses to earnings,	-	74	.63			
Net earnings per mile of road,	-	-	-	<b>\$</b> 312 11		
Net earnings per train mile,	-	-	-	1 <b>5</b> 33		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: July 1, 1886.

From East Saginaw to Sebewaing, April 4, 1882.

From Sebewaing to Bay Port, June 15, 1884.

Bay Port to Bad Axe, July 1, 1886.

	MAIN	I LIN	E.			Miles, 10	Oths, M	iles, 10(	iths.
In Michigan: From East Saginaw to Bad Ax	ю,	-	•	-	-	64	38		
Total length completed,	•	-	•	-	-		-	64	38-
	BRA	nohe	<b>18.</b>						
Bay Port, from Bay Port Junctio Quarry, from Quarry Junction to				rries,	-	1	38 81		
Total length of branches own	ned	<b>ьу С</b>	ompa	ny,	-	-	_	2	19
Total length of branches owned gan, Total length of road belonging to	-		_	-	eh- - -	2	19	66	57

	Miles, 100ths, Miles, 100ths									
Total length of road belonging to this Company in Michi-										
gan, Aggregate length in Michigan of sidings, spurs, and other	66 57									
tracks not above enumerated,	6 68									
Aggregate length of tracks in Michigan belonging to this Company, computed as single track,	73 25									
Gauge of track 3 feet.										
Total miles operated by the Company,	Total Miles. In Michigan. 66 57 66 57									
Number of Bridges and Trestles in Michigan.										
Wooden bridges, number of, _ 11; aggregate length,	feet, 1,287									
Total, 11;	1,287									
Draw Bridges in Michigan.										
How many on your line? Where located, when built, and length of draw span: Sebewaing, 1882; 43 feet 9 inches.	. 1									
Character of structure: Jackknife draw.										
Material of which constructed:										
Wood and iron.  Height above water, and depth of water under bridge:										
Six feet; seven feet.										
How swung, by engine or hand power?  Hand power.										
Approaches, straight or curved? Straight.										
Do you require all trains to come to full stop before croare they signaled?	ssing draw, and how									
Full stop by flag and lamp.	•									
Crossings—Railroad and Highway.										
What railroads cross your road at grade in this State, and	d at what locality?									
Michigan Central R. R., at Reese.  Pontiac, Oxford & Port Austin R. R., at Berne Juncti	-									
What railroads cross your road either over or under your and where?  None.										
At what crossings are interlocking and derailing switches None.	s in operation?									
Number of crossings of highways at grade in this State,	, _ 79									
Number of crossings of highways at grade in this Sta which there are gates or flagmen,	te at None.									

Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 1883? Yes.	
How are they treated? Wooden blocks bolted on.	

## Stations.

Number of sta Same in Michi			hole :	line, -	- ·			-	-	17 17
•				En	nployé	8.				
Number of per by Company						n all :	roads	opera	ted	73
Come in Michi	, IHCI	mains	ощо	aro,	4	-	-	-	-	73
Same in Michi					- 1:	-4.	-	-	-	19
Classify your e		yes as	per 1	OTTOM	ing ii	. 3T	_			
Baggagemen		-	-	-	-	-	-	-	-	_
Brakemen,			-	-	-	-	-	-	-	6
Conductors,		-	-	-	-		-	-	-	4
Engineers,	_	_	-	_	-	_	-	-	-	4
Firemen,		-	_	_	_	-	_	-	_	4
Laborers,		-	_	_	_	_	_	_	_	34
Shopmen,				_	_	_	_	_		_
Yardmen,	_	-	_	_	_	_	_	_	_	
Others, _	-	-	-	•	-	-	-	-	-	21
O 01101B, _	• .	-	-	-	-	-	-	-	-	21
			REPA	IRS A	ND R	ENEW	ALS.			
			Fe	ncing	in Mi	chigar	<b>.</b> .			

How many miles of fencing have you?	132.14
Give the number of miles required to complete fence both	
sides of your track, in Michigan, and the counties in which	
needed,	1.00

# Road Bed and Track.

Number of track sections in Michigan,	_	_	-	11
Average length of sections (miles),	_	_	-	6
Average number of men in each section gang,		_	-	3
Number of new ties put in whole line during the	year	۲,	-	13.710
Number of new ties put in track in Michigan,		-	-	13.710
Average number of new ties per mile of road,	-	-	-	206
New rails put in track:				
Steel [tons 37], miles,		-	-	0.61
Total miles of track laid with new rails.—about		_	_	0.61

:

# Bridges and Culverts.

Amount of trestle work replaced with ear			the	year	
(linear feet),	-		-	-	None.
Timber culverts replaced during the year,	-	-	-	-	None.

## ROLLING STOCK.

Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Number of locomotives of 10 to 20 tons weight, exclusive of tender,  Total,	Number.  3  5  4	Present Estimated Value. \$15,000 00
Number of passenger cars—8-wheel, including		
official cars,	7	12,500 00
Number of express and baggage cars,	3	4,100 00
Number of box freight cars,	82	28,600 00
Number of stock cars,	9	2,700 00
Number of platform cars, 83; coal, 20,	103	26,750 00
Number of conductors' way cars,	1	100 00
Total,	205	<b>\$</b> 106,750 00
Number of locomotives equipped with power brakes, Number of passenger-train cars equipped with	8	
power brakes,	10	
Number of freight cars equipped with power brakes,	83	
What patterns of power brakes have you in use, and number of locomotives and cars with each? Eames' vacuum.	_	
Are your freight cars equipped with automatic courequired by Act No. 147, Session Laws of 1885?	plers as	Yes.
What pattern or patterns have you adopted for use? McCree.		

# MILEAGE, TRAFFIC, ETC.

## TRAIN MILEAGE.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	91,749 43,738
Total mileage of trains earning revenue,	-	-		135,487

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## Passenger Traffic.

Passer	nger Traj	fic.		
		Numbers and Quantiti		es. Rate.
Number of through passengers carrie	ed.	3,101		
Number of local passengers carried,		59,670		
Total number of passengers carr	ried, -	62,771	•	
Total passenger mileage, or passenger	s carried	l one mile.	1,574,2	37
Average distance traveled by each pa			<b>25.</b>	08
Average amount received from each		r	_	_ \$0 55.70
Average rate of fare per mile for the	ongh na	BRADØATS.	<del>-</del>	02.65
Average rate of fare per mile for loc	al nassar	ngers.		02.16
Average rate of fare per mile for all	passeng	ers,	- -	02.22
	_			
Freig	ht Traffle	<b>2.</b>		
Number of tons of through freight on Number of tons of local freight carr	earried,	1,078 50,478		
•	•			
Total tons of freight carried,		51,556	}	
Total mileage of through freight,	_	_	72,3	39
Total mileage of local freight,		-	1,928,7	
m . 1.0 . 1.1 . 13		••	40.001.1	_
Total freight mileage, or tons ca	rried on	e mile,	<b>\$</b> 2,001,1	31
Average ton haul for through freigh	t, _			67
Average ton haul for local freight,			<b>38</b>	21
Average ton haul for all freight,			38.	81
Average amount received for each to	n haul,		<b>.</b>	- \$0 83.49
Average rate per ton per mile, receive	d for thi	rough freig	ht.	03.07
Average rate per ton per mile, receive	ed for lo	cal freight.		02.12
Average rate per ton per mile, receiv				_ 02.15
		0/		
Freight Forwarded	at Mich	iaan Station	LR.	
			- 3	Forwarded, Tons.
Grain,			-	2,368
Flour, Provisions (beef, pork, lard, etc.),			_	_ 188
Provisions (beef, pork, lard, etc.),			-	674
Animals,			_	_ 69
Lumber and forest products,			-	. 21,005
Coal,			•	_ 52
Coal, Plaster, lime and cement,			-	_ 1,666
Salt			_	_ 93
Stone, brick and sand,			-	17,699
Manufactures,—articles shipped from	ı poınt (	of producti	on, _	2,181
Merchandise and other articles not en	numerate	ed above,	-	5,560
Total forwarded,			-	51,555
		-	_	,

Tonnage of Articles Transported—Entire Road.

_	-	`					Tons.	Per Cent
Grain,	_	_	-	_	-	_	2,368	4.59
Flour,	-	-		-	-	_	188	.37
Provisions (beef, pork, la	rd, e	tc.),	-	-	_	-	674	1.31
Animals,	-	_	_	_	_	_	69	.14
Lumber and forest produc	ots,	_	_	_		-	21,005	40.74
Coal,	_	_		_	-	-	52	.10
Plaster, lime and cement	_ و	-	_	2	_	_	1,666	3.2 <b>3</b>
Salt,	•	_	-	-	_	-	93	.18
Stone, brick and sand,	-	_	-	_	-	_	17,699	34.33
Manufactures,—articles s	hippe	d fro	m poi	int of	pro	duc-	-	
tion,	-	_	•	-	٠.	_	2,181	4.23
Merchandise and other an	rticle	not e	num	erated	abov	θ, _	5,560	10.78
Total tons carried,	_	-	_	-	-		51,555	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

One and one-half first-class rate.

Handle their own freight.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 65.76 miles. Owned and operated by this Company.

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

William L. Webber, President, and C. M. Rice, Auditor, of the Saginaw, Tuscola & Huron Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. 8. OF R. R.]

Signed,

WM. L. WEBBER. C. M. RICE.

Subscribed and sworn to before me this 2d day of April, A. D. 1888.

SAMUEL G. HIGGINS,

Notary Public in and for Saginaw Co., Mich.

## ANNUAL REPORT

#### OF THE

# MANISTIQUE RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed April 5, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, M. S. SMITH, Detroit, Mich. Vice President, LEWIS A. HALL, Bay Mills, Mich, Secretary and Treasurer, J. C. McCAUL, Detroit, Mich.

#### DIRECTORS.

R. A. ALGER, Detroit, Mich.
M. S. SMITH, Detroit, Mich.
J. C. McCaul, Detroit, Mich.
ABIJAH WESTON, Painted Post, N. Y.
R. K. Hawley, Cleveland, Ohio.
Lewis A. Hall, Bay Mills, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, -Sept	tember	18, 1	.886.			
Number of stockholders at date of last election,	-	_	-	-		7
Number of stockholders in Michigan at same date,	-	-	_	-		5
Amount of full paid stock held in Michigan at same	date,	_	_	_		_
Date of annual meeting of stockholders,	-	_	_	-	:	
Fiscal year of Company ends December 31.						
General offices of the Company are located at Detroi	t, Mich	•				

## GENERAL EXHIBIT.

m							Debit.		CREDIT.	
Total income, I Total expenses, inclu	ding	taxes	- , -	-	-	*1	9,761	36	<b>\$44</b> ,132	59
Net income,	-	-	-	-	-	-	•	-	24,371	23
Interest on unfunde	d debt,	-	-	-	-		<b>\$454</b>	41		
Balance for the	year,	-	-	-	-	-	-	-	\$23,916	82
Balance last year, Balance forward to	- next y	- ear,	-	-	-		494 3,422			•
						\$2	3,916	82	\$23,916	82
Amount authorized	by cha	rter o	r art	icles (	TAL			-	<b>\$</b> 100,000	00
Par value of shares, No. of shares issued Amount paid in on ber 550),	shares	- not	issue	No	ne. ım-	<b>\$</b> 5	5,000	00		
Total amount p	aid in	as pe	r boo	ks of	the C	Compa	any,	-	55,000	00
Paid in per mile of	road o	wned -	•	ompa -	ny, -	8	3,928	57		•
	GENI	ERAL	BAL	ANCE	SHE	ET,—l	Dr.			
Construction account Equipment account,		-	-	-	-	<b>\$9</b>	4,758 0,241	07 30	<b>\$124,</b> 999	37
Other assets: Debit balances fr	om co	mpan	ies a	nd in	di-					
viduals, -	-	-	•	-	-	-	-	-	1,596	
Total,	-	•	-	-	•	-	-	-	\$126,595	42
	GENI	CRAL	BAL	ANCE	E SHE	ET,(	Cr.			
Capital stock,—paid Unfunded debt:	l in,	-	-	-	-	-	-	-	<b>\$55,000</b>	00
Vouchers and according to the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the volume of the			- nts,			-	-	-	48,172 23,422	
Total,	-	-	-	-			-	-	<b>*126,595</b>	42

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

None.

## UNFUNDED DEBT.

For What Incurred.		Same to be			-	sted.	Amoun	L
For construction	To be paid			••••	<b>-</b>			
For renewals				<b></b>	<b>-</b>			
For miscellaneous			····		<b>.</b>	· · · · · · · ·		
For current balances								• • • • •
Total unfunded debt							\$48,1	72 64
	RECA	PITULA	TION.					
Total unfunded debt,		-	-	-	-	-	<b>\$4</b> 8,172	64
Total debt liabilities	,	-	-	-	-	- '	\$48,172	64
Amount of debt liabiliti	es per mile	of rose	d,—1	4 mile	8,	-	3,440	90
Total amount of stock a Stock and debt per mile		- -	-	-	-	-	- 103,172 7,369	
COS	ST OF ROA	D AND	EQUI	PMEN	T.			
Total cost for Construction	and Equip	nent of 1	Road,	and Br	anch	es Bui	lt by Compo	ıny.
Total expended for cons	truction a	ad equip	oment	t,	_	_	<b>\$124,999</b>	37
Average per mile of ros	d, not iuc	luding	siding	zs,—14	ł mi	les,	8,928	53
Proportion of cost for M	lichigan,	•	-	-	-	-	134,999	37
CHARGE	S AND CR	edits i	URIN	G TH	e Y	EAR.		
For new construction,		_	_	_	_	_	\$48,071	. 86
For new equipment, inc	luding ma	chinery	and	tools,	-	-	16,296	
Total charges,		٠ ـ	-	-	-	-	\$64,368	15
Property sold and credi	ted during	the yea	ras f	ollows -	-	ci <b>fy</b> ) :	: 2,581	. 00
Net charge to prope	erty accou	at durin	g the	year,	-	-	\$61,787	15

## ANALYSIS OF EARNINGS AND EXPENSES.

## EARNINGS.

<b></b>			•					
From freight,	-		-	•	-	-	<b>\$44</b> ,132	59
Total earnings,	-	<b>-</b> -	-	-		-	\$44,132	59
Earnings per mile of road						-	3,152	33
Earnings per train mile re	ın from	all tr	ains ea	rning	revenu	.е,—	_	
21,000 miles,	-		-	-	-	-		10
Total earnings,			-	-	-	-	44,132	
Total taxable earnings in	Michig	an, _		-	-	-	44,132	
Total income,			-	-	•	-	44,132	
Proportion for Michigan,	-		-		-	-	44,132	59
				•				
		EXPE	18 <b>E</b> 8.					
					Per C	ent.	Tota	al.
Class 1. Maintenance of	way an	d build	lings,	-		.02	<b>\$4</b>	70
Class 2. Maintenance of					4	.20	829	17
Class 3. Conducting tran	sportat	ion.	-	_	95	.12	18,797	31
Class 4. General expense			-	_		.66	130	
Total expenses and ta	Xes,		_	-	100	.00	<b>\$</b> 19,761	36
0		:1						
Operating expenses and ta	xes per	шпе от	road	oper-	61 411	<b>K</b> 9		
ated,—14 miles,		. <u> </u>	:1-	-	<b>\$1,411</b>	ออ		
Operating expenses and t	axes pe	r traii	mne	run	^	0.4		
for trains earning reven					U	94		
Proportion of operating	_	es and	taxes	ior	10 801	20		
Michigan,		-	-	,-	19,761	36		
Per cent of expenses from				45		00		
Net earnings per mile of r			-	-	1,740			•
Net earnings per train mil	e run,	-	-	-	1	16		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: July, 1887.

	MA.	IN LI	y is.		Miles, 100ths, Miles, 100ths			
In Michigan: Seney to Camp, 10,	-	٠.	-	-	-	12 00		
Total length completed,	-	-	-	-	-		12 00	
Branches,	-	-	-	-	-	2 00		
Total length of branches	owned	by Co	ompa	ny,	-		2 00	

204 MICHIGAN RAILROAD RETURNS.	[Dec. 31.
•	Miles, 100ths, Miles, 100ths,
Total length of road belonging to this Company, Aggregate length of sidings, spurs and other tracks not	- 14 00
above enumerated, Aggregate length of tracks belonging to this Company,	50
	14 50
Total miles operated by the Company, Gauge of track, 4 feet 81 inches.	14 50
Number of Bridges and Trestles in Michigan	<b>.</b>
Wooden bridges, number of, 2; aggregate length, feet,	- 300
Wooden trestles, number of, 3; aggregate length, feet,	- 600
Total, 5;	. 900
Crossings—Railroad and Highway.	
What railroads cross your road at grade in this State, and D., S. S. & A. R., at Seney. What railroads cross your road either over or under your g	-
and where? None.	_
Number of crossings of highways at grade in this State, Number of crossings of highways over or under railro	
(over, —; under, —),	None.
Number of highway bridges, 18 feet above track, Number of highway bridges less than 18 feet above track.	None. None.
Employés.	
Number of persons regularly employed on all roads operat	tad
by Company, including officials,	- 2 <b>4</b>
Same in Michigan,	24
Fencing in Michigan.	
How many miles of fencing have you?  Give the number of miles required to complete fence both si of your track, in Michigan, and the counties in wh needed:	None. des ich
None required by law.	
REPAIRS AND RENEWALS.	
Road Bed and Track.	
Number of track sections,	- 2
Average length of sections,—miles,	- 6
Average number of men in each section gang,	10
Steel [tons, 383], miles—renewals,	- 6 - 6
New bridges built during the year,—number,	None,

34

• •							
ROLLING STO	CK.		Nu	nber.	P Estims	resent	due.
'Number of locomotives, all classes, exclusivender,	sive -	of -		1	_	6,892	
Total,	-	-		1	*	6,892	25
Number of platform cars,	_`	-		57	1	9,170	00
Total,	-	-	-	57	\$0	6,062	25
MILEAGE, TRAFFI	[ <b>C,</b> ]	ETC.					
Train Mileag	e.						
Miles run by freight trains during the year,		-	-	-		21,0	000
Total mileage of trains earning revenue	وا	-	-	-		21,0	000
Passenger Traj	fic.						
None reported.						•	
Freight Traff	c.						
Total tons of freight carried,		Number Quantii 152,5	ies.	Mi	les.	Rat	te.
Total freight mileage, or tons carried one mi	le,	-	-	1,164	<b>,4</b> 66		
Average ton haul for all freight, Average amount received for each ton haul, Average rate per ton per mile, received for		- freight	- t,	-	7.63 - -	<b>\$</b> 0	29 04
Tonnage of Articles Transport	ed-	-Entire	Roc	ıd.			
				T	ons.	Per (	ent.
Lumber and forest products, Grain, flour, provisions, other agricultural p	- o <b>ro</b> d	- lucts n	ot	150	,121	•98	.40
included above,	-	-	-	2	<b>,4</b> 38	1	.60
Total tons carried,	-	-	-	152	,559	100	.00

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

M. S. Smith, President, and J. C. McCaul, Secretary, of the Manistique Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

M. S. SMITH, President. J. C. McCAUL, Secretary.

Subscribed and sworn to before me this 4th day of April, A. D. 1888.
[L. S.]
G. H. STALKER,

Notary Public, Wayne Co., Mich.

## ANNUAL REPORT

#### OF THE

# DETROIT, BAY CITY & ALPENA RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 5, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. A. ALGER, Detroit, Mich.

Vice President, M. S. SMITH, Detroit, Mich.

Secretary, T. H. NEWBERRY, Detroit, Mich.

Auditor, J. C. McCAUL, Detroit, Mich.

Treasurer, M. S. SMITH, Detroit, Mich.

General Manager, R. A. ALGER, Detroit, Mich.

General Superintendent, MILO EASTMAN, East Tawas, Mich.

Chief Engineer, C. H. ELLIS, Detroit, Mich.

General Passenger and Freight Agent, J. C. McCAUL, Detroit, Mich.

Attorney, A. M. HENRY, Detroit, Mich.

#### DIRECTORS.

R. A. ALGRE, Detroit, Mich.
M. S. SMITH, Detroit, Mich.
JAS. McMILLAN, Detroit, Mich.
HUGH McMILLAN, Detroit, Mich.
T. H. NEWBERRY, Detroit, Mich.
J. C. McCAUL, Detroit, Mich.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, —	February 18, 1880.	Amended articles
April 2, 1883.		
Number of stockholders at date of last election.		. 9

Number of stockholders in Michigan at same date,

Amount of full paid stock held in Michigan at same date, \_ \_ \_ \$1,592,400 00 Date of annual meeting of stockholders,—Third Tuesday in May.

Fiscal year of Company ends December 81.

General offices of the Company are located at Detroit, Mich.

## GENERAL EXHIBIT.

				1	DEBIT.		CREDIT	-
Total income, Total expenses, including taxes	3,	-	-	\$263	,866	79	<b>\$4</b> 69,296	68
Net income,	-	-	-		-	-	205,429	89
Interest on funded debt,	-	-	-	<b>\$13</b> 8	3,450	01	•	
Balance applicable to dividends Dividends declared (4 per cent	),	-		-	-	-	66,979 66,800	
Balance for the year,	-	-	-	-	-	-	\$179	88
Balance (profit and loss) last ye Items not included in above as	ar, foll	- 0 <b>W</b> 8:	-	-	-	-	13,239	97
Bonus, Premium on bonds, Interest,	-	-	-	5	2,966 2,625 1,048	00		
Balance forward to next year,	-	-	_	-	- -		6,640 20,059	
				\$20	,059	97	\$20,059	97
ANALY	7SIS	OF CA	PITA	AL STO	CK.			
Amount authorized by charter Par value of shares,	_	<b>\$</b> 100	00	sociatio	n,	-	\$2,000,000	00
No. of shares issued, Amount paid in on common,		16, -		<b>\$1,67</b> 0	,000	00		
Total amount paid in, as p	er t	ooks o	f the	Comp	any,	-	\$1,670,000	00
Paid in per mile of road own pany,—218.13 miles,		by Co		\$7	7,656	00		

Total,

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Total funded debt				\$2,500,000 00
First mortgage	6 per cent	Jan. 1, 1918.	New York	\$2,500,000 00
Class, Character, and date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.

## UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For renewals		
For miscellaneous		
•		
		\$26,847 78

## RECAPITULATION.

	-								
-	-	-	-	-	-		-	\$2,526,347	75
per	mile	of ro	ad [21	8.13	miles	3],	-	11,581	84
			-					4,196,347 19,237	
ERA	L BA	LANC	E SH	EET,	,—Dr.				
					385,3	78	87	<b>◆</b> 4 126 615	01
					<b>\$</b> 95,5	69	34	, ,	
				_				•	15 56
	per l de ros ERA	per mile debt, road, ERAL BA	per mile of road,	per mile of road [21 debt, road, ERAL BALANCE SH	per mile of road [218.13 d debt, road, ERAL BALANCE SHEET, \$3,	per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per mile of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles of road] per miles of road [218.13 miles	per mile of road [218.13 miles], d debt, road, ERAL BALANCE SHEET,—DR	per mile of road [218.13 miles], d debt,	26,347  26,347  27,526,347  28,526,347  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581  21,581

\$4,283,207 72

## GENERAL BALANCE SHEET,-CR.

Capital stock, Funded debt,	-	-	-	-	-	-		370,000 500,000			
1 41404 4000,	•	-	•	-	-	-				\$4,170,000	00
Unfunded deb	t:										
Dividends unp	aid (	payabl	e Jan	. 1, 1	888),	_	_	_	-	66,979	88
Notes payab	le, ¨	-	-	-	-	-		<b>\$</b> 966	96		
Vouchers and	d acc	ounts,	-	-	-	-		25,380	79		
										26,347	
Profit and loss,	or i	come	acco	unts,	-	-	-	•	-	20,059	97
Total,	-	-		-	-	-	-	-		\$4,283,207	72

## COST OF ROAD AND EQUIPMENT.

## Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction and Average cost per mile of road (not i	<b>\$4</b> ,136,615	01					
miles,			-	,, -		20,955	50
Proportion of cost for Michigan,	_	-	_	-	_	4,136,615	01

## Purchased by Present Company.

When purchased,—July 11, 1882. Original cost to present Company, of Amount expended since purchase, a Amount expended since purchase, a		\$107,664 3,643,572 385,378	22				
Total cost to date of report, _	-	-	<del>-</del> -,	-	<b>\$4,</b> 136,615	01	
Proportion of cost for Michigan,	-	_		_	4,136,615	01	

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

## MAIN LINE.

Extensions, -	-	-	-	_	_	-	_	_	\$203,892	58
New buildings, -	-	-	-	-	-	-	-	_	8,857	47
Machinery and tool	8, _	-	-	-	-	-	-	-	273	59
New locomotives,	-	-	-	-	-	-	-	-	56,005	88
New cars,	-		-	-	-	-	-	-	34,285	49
Total charges	to pro	perty	accou	nt as	abov	'е, <sub>-</sub>	-	-	\$303,315	01
Net addition to pro	perty	accor	ınt,	_	_	_	_	_	303,315	01

## ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

	LAG	OMMU	NT NY	THIM	uo.			
Main line and branches	:							
Local fares,	-	-	-	-		-	<b>\$94,936</b>	79
Total passenger far	·es, _	-	-	-		-	<b>\$94,93</b> 6	79
Express and baggage,	-		_	_			2,159	78
Mails,	-	-	_	-		_	8,383	
Other sources,	-	-	-	-		-	9,150	32
Total passenger ear	nings,	-	-	-		•	<b>\$114,630</b>	67
Proportion for Michig	gan,	-	_	_	\$114,630	67	_	
Per train mile, Per mile of road,	-	_	-	_		1 74	~	
Per mile of road,	-	-	-	-	528	5 52		
	FR	EIGH	T EAR	NING	8.			
Main line and branches	1:							
Local traffic,	•	-	-	-	\$354,66	6 01		
Total traffic,	'. -	-	-	-	<b>\$354,666</b>	3 01		
Total freight earni	ngs,	-	-	-		-	\$354,666	01
Proportion for Michiga	n	-	-	-	\$354,666			
Per train mile, Per mile of road,	-	-	-	-		1 25	1	
Per mile of road,	-	-	-	-	1,625	5 94		
Total transportation ea			•	-		-	<b>\$469,296</b>	68
Transportation earning	s per m	ile of	road,	-	<b>\$2,151</b>			
Transportation earnings	s per tra	ain m	tile,	-		1 08		
Total earnings from	n opera	tion o	f road	l, _		-	<b>\$469,29</b> 6	68
Total earnings per mile	of road	i,	-	-	<b>\$2,15</b> 1			
Total earnings per train	mile,	- 		-		L 08		
Proportion of taxable es					469,296	0 68		•
Total taxable earnings Michigan,	-	He or	roau	ш	9 151	1 15		
Income other than from		-	-	-	2,15	L 40		
Premium on bonds,		.go.			2,628	5 00		
Interest,		-	-	-	1,049			
Bonus,	-	-	-	-	2,966			
Doute,	•	-	-	-			6,640	12
Total income from	all sour	C68,	-	_		-	<b>\$</b> 475,936	80
Proportion of income for	or Mich	igan,	-	-		-	475,936	80

## ANALYSIS OF EXPENSES.

## CLASS 1.—Maintenance of Way and Buildings.

Repairs of roa Repairs of brid	lges,	includ	ling c	ulver	ts and	_ cattle	- e gua	rds,	-	\$47,586 1,416	79	
Repairs of fen	ces, r	oad c	rossin	gs, ar	ıd sigi	ns.	-	-	-	150	00	
Repairs of buil	dings	3, -	-	-	-	-	-	•	-	1,418	<b>52</b>	
m-A-1										AFO F **1		
Total,	-	-	-	-	-	-	-	-	-	<b>\$</b> 50,571	87	
	Or ve	na 9	Wain		T	Totive I	Donner	and C	Varan			
	CLAR	35 <b>2</b> .—	Mutit	ienunio	e oj m	lottoe 1	rower	ana C	urs.			
Repairs of loco	moti	V06.	_	_	_	_	_		_	<b>\$3,404</b>	28	
Repairs of pass	sen gei	cers		_	_	_	_	_	_	4,112		
Repairs of frei	ght c	ara.	, - -	_	-	-	-	-	-	7,049		
100puils of fici	8 H V	a,	-	•	-	•	-	-	-			
Total,	-	-	-	-	-	-	-	-	-	<b>\$14,5</b> 66	58	
CLASS 8.—Conducting Transportation.												
**	. •											
Fuel for locom			•	-	-	-		-	-	\$40,109		
Water supply,		-	-	-	-	-	-	-	-	2,372		
Oil and waste,			-	-	-	-	-	-	-	2,359	03	
Locomotive ser	rvice,	-	-	-	-	-	-	-	-	50,614		
Train service,		-	_	-	-	-	_	_	_	33,995	86	
Train supplies,	_	_	-	-	_	_	_	-	_	1,369		
Mileage of cars		-	-		-	_	_	=	_	4,434		
Telephone exp	ongog				nd one	ratino	r) -	_	-	1,960		
Damage and lo	one of	fraid	at and	ham	rano	) 1 morre	5/,	-	•	1,000	10	
Damages to pr	opost.	a ong	oottle	r nagi	gago,	}				2,553	90	
Damages to pr	oper	-	Carrie	٥,		)	-	-	-	790		
Personal injur	168,	<u>.</u>	. <del>.</del>	1_3:_	- 1 - 2			_1	<u>.</u> .	790	w	
Agents and sta	tion a				-	sting	ana u	nioad	ıng			
logs,—\$11,7		, -	-	-	-	-	-		-	26,218		
Station supplies	8,	-	-	-	-	-	-	-	-	1,334	37	
Total,	-	-	-	-	-	-		-	-	<b>\$</b> 168,110	09	
			CT.ARS	s 4.—(	Jenera	l Expe	naes.					
					20.00.0	· Lupo						
Salaries of the	gener	ral off	icers	of the	Com	pany,	_	-	-	<b>\$</b> 9,166	66	
Salaries of cler	ks in	gener	al off	ices,	_ `	- ·	-	-	-	5,980	42	
Law expenses,			_	_		_	-	-	_	450	00	
7			_	_		_	_	_		502	83	
Stationery and	print	ting.	_		_	_	_	_	_	2,594	96	
Contingencies,	<u></u>		-	_	-	_	-	-		5,845		
Taxes.	-	-	•	-	-	-	•	-	-	4,911		
Taxes, _ Rent, _	-	-	-	-	-	-	-	-	•	1,166		
100110, -	-	-	-	-	-	-	-	-	-			
Total,	-	-	-	-	-	-	-	-	-	\$30,618	25	

## RECAPITULATION OF EXPENSES.

Maintenance of way and buildings,Maintenance of motive power and cars, Conducting transportation,General expenses, including taxes,	Per Cent of Expenses.  - 19.17 \$50,571 87  - 5.52 14,566 58  - 63.71 168,110 09  - 11.60 30,618 25
Total operating expenses and taxes,	100.00 \$263,866 79
Operating expenses and taxes per mile o Operating expenses and taxes per train for trains earning revenue,—433,206 n Proportion of operating expenses and Michigan: Main line,	mile run, niles, 61
Total proportion of expenses for Mi	ichigan, \$263,866 79
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	56.23 \$941 78 47

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Alger, Mich., to Alpena, Mich., September 20, 1886.

		MAI	N LI	NE.					
In Michigan:			•				Miles, 10	Oths.	Miles, 100ths.
From Alger to	Alpena,	-	-	-	-	-	105	00	
Total length	completed	i, .	-	-	-	-	-	_	105 00
		BRA	NCH	E8.					
Loon Lake, from	Emery Ju	nction to	Pott	S8	_	_	32	98	
Mud Lake, from						_	45	31	
Bush Lake.	_		_		_	_	4	73	
Prescott,	_			_	_	_	4	39	
Others,	-		-	-	-	-	4	99	
Total length	of branch	harwa sa	hv (	lomnar	יער			_	92 40
Total length of b						ioan.	92	40	0.0
Total length of r						,	0.0		197 40
Total length of						in	-	-	10. 10
Michigan, .	-		-	-		-	197	<b>40</b>	
Aggregate length other tracks no				gs, spi	178,	and	20	73	
Aggregate length				belor	ging	to			
this Company, Gauge of track 4	computed	as single			-	-	218	13	
	<del>-</del> .								

•						Total Miles	. In Michigan.					
Total miles operated	by the Co	mpany	, -	-	-	218 13	218 13					
Number	of Bridges	and T	restles	in M	ichiga	ın.						
Wooden bridges, number	of, _ 1						1,365					
Iron bridges,		2;agg	regat	e leng	th, f	eet,	436					
Combination bridges, nu Wooden trestles, number	mber oi,	ະ;agg	regat	e len	gun, I oth f	eet, oot	1,437 2,375					
• Wooden flesties, number	··· -		rogai	o len	Rom, r	<del>00</del> 0,						
Total,	2	23;	-	-	-	-	5,613					
Draw Bridges in Michigan.												
How many on your line?	- , -	-	-	-	-	-	None.					
Cr	o <b>ssings</b> —Ra	ilroad d	ınd H	ighwa	y.							
What railroads cross your	r road at gr	ade in	this	State	, and	at what	locality?					
None. What railroads cross your and where?	road eithe	r over	or ur	ider y	our g	grade in t	his State,					
None. Number of crossings of h	nighways at	grade	in th	nis St	ate,	-	68					
Number of crossings of which there are gates of		_			State	, at	None.					
Number of crossings of h	ighways ov	er or u	nder i	railro	ad (ov	- ver.	моце.					
—; under, —), Are your frogs and guard		-	-	-	-	-	None.					
Are your frogs and guard	rails block	ed as 1	equii	ed by	Act 1	.74,	37					
Session Laws 1883?		-	-	-	٠.	•	Yes.					
	s	tations										
Number of stations on w	hole line.	-	-	-	-	-	30					
Same in Michigan,		-•	-	-	-	-	30					
	E	mployé	3.									
Number of persons regula	arly employ	ed on	all r	oads	opera	ted						
by Company, including		-	-	-	-	-	350					
Same in Michigan,		-	-	-	-	-	350					
Classify your employés as	per follow	ing lis	t:				Number.					
Baggagemen,		-	-	-	-		5					
Brakemen,		-	-	-	-	-	53					
Conductors, Engineers,	-	-	•	-	-	-	21 23					
Firemen,		-	-	-	•	-						
Laborers,							25					
		_	_	-	-	-	102					
Shopmen, Others,		-	-	- -	- -	-						

#### REPAIRS AND RENEWALS.

## Fencing in Michigan.

How many miles of fencing have you?

Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:

Not required to fence by law.

#### Road Bed and Track.

Number of track sections in Michigan,	-			26
Average length of sections (miles),	-	-	-	7.5
Average number of men in each section gang,	-	-	-	4

## Bridges and Culverts.

Amount of trestle work replaced with earth	during	the	year	
(linear feet),		-	-	983
Timber culverts replaced during the year,		-	• _	None.
New bridges built during the year, -number,	-	_	-	1

Location.	Kind.	Material.	Month built.	Feet in length.		
Alpena	Firder	Iron	March			
Total				391		

## ROLLING STOCK.

•								Number.	Present Estimated Value.
Number of loc		of m	ore t	han 3	0 to	ns weig	nt,		4110 000 00
exclusive of	tender,		-	-	-	-	-	17	<b>\$</b> 119,000 00
Total,			•	-	-	-	•.	17	<b>\$119,000 00</b>
Number of	passenge	r ca	rs—8	whe	el,	includi	ng		
official cars,	,		-	-	-	-	-	5	18,000 00
Number of ex	press and	bag	gage	cars,	-	-	_	2	5,000 00
Number of bo	x freight	cars	,	_	-	-	-	38	16.150 00
Number of pl				-		_	-	310	99,200 00
Number of co				8.	_	-	_	5	1,250 00
Other cars as			•	•					·
Long timbe	r trucks,		•	-	-	-	-	300	<b>34</b> .800 00
Total,		i	-	-	-	-	-	660	\$293,400 00
Number of loc	omotives	equi	pped	with	роч	er brak	<del>0</del> 8,	17	

276	MICHIGAN RAILRO	DAD RET	URNS.		[Dec. 31
power brakes, What patterns of po- and number of loc Westinghouse air American steam b Are your freight ca- by Act No. 147, S Yes.	ger-train cars equipower brakes have yo comotives and cars where the brake,—locomotives, rake,—locomotives, rs being equipped wession Laws of 1885; terns have you adopted	u in use vith each 4; cars, 13. ith auto	- ;; ; 7. matic (	7 couplers as	required
	MILEAGE, TRA	ffic, et	C.		
	Train Mil	eage.			
Miles run by freight Miles run by mixed	yer trains during the trains during the yestrains,	ar,	 	-	65,744 281,700 85,762 433,206
Total mileage o	I Wains calling 16ve	nue,		-	400,200
	Passenger !	Traffic.			
Number of local past	ssengers carried,	- 1 	nber and antities. 14,245	Miles.	Rate. Dolls. Cts.
Average distance tra Average amount rec Average rate of fare	age, or passengers can weled by each passengeived from each pass per mile for local pass per mile for all pass	ger, enger, issengers	 	29.5	\$0 83 .03 .03
	Freight 2	Traffic.			
Number of tons of lo	ocal freight carried,	373,30	0		
Total tons of fr	eight carried,	373,30	0		
Total mileage of loc	al freight,	-	-	7,297,087	
Total freight m	ileage, or tons carrie	d one mi	le,	7,297,087	
Average rate per tor		or local f		19.55 19.55 - -	95 5 5

Freight 1	'orwarded	at Michig	jan Stations.
-----------	-----------	-----------	---------------

			•										Forwarded, Tons.
Grain,	_	_	_	-	_	٠.		-	-	_		_	2,918
Flour,			_	_	-	-		-	÷	-	_	_	887
Provisions	(beef,	pork	, lard	, etc	.),	_		-	. !	_	-	_	1,957
Animals,		_	_		<i>.</i> _	_		_	-	-		_	524
Other agric	cultur	al pr	oduct	8,	_	-		_	-	-	-	-	2,086
Lumber an	d fore	et pr	oduct	8,	_			_	_	_	-		345,363
Coal,		. •	-	_	_				_		-	_	2,080
Plaster, lin	ne and	l cem	ent,	_	-	_		-	-	_	-	_	196
Salt,		-	-	_	_	_		-	_	_		_	3,179
Petroleum,	, .		-	_	_	_		_	_	_			293
Railroad ir	on, ire	on an	d stee	l rai	ls.	_		-	_	_	-	-	875
Other iron	and c	astin	gs,	_	_	_		-	_	-	_	_	437
Stone, bric	k and	sand	,	_	_	_		-	_	_	-	_	230
Manufactu	res,	artic	es shi	pped	fro	mр	oint	of	produc	ction,	-	_	3,702
Merchandi											-	-	8,573
Total:	forwa	rded,		-	-	-		-	-	-		-	373,300

## Tonnage of Articles Transported.—Entire Road.

							Tons.	Per Cent
Grain,	_		_	-	_	-	2,918	.782
Flour,	-				-		887	.238
Provisions (beef, pork,				_	-	_	1,957	.524
Animals,		<i>''</i> -	-	_	_	_	524	.140
Other agricultural produ		_	_	-	-		2,086	.559
Lumber and forest prod			_		_	_	345,363	92.516
Coal,	•	_		_	_	_	2,080	.557
Plaster, lime and cemen		_	_	_		_	196	.053
Salt,	•	_	_		_	_	3,179	.852
Petroleum,			_	_	_	_	293	.078
Railroad iron, iron and				_	_		875	.234
Other iron and castings,				_	_	_	437	.117
Stone, brick and sand,		_	_	_	_	_	230	.062
Manufactures,—articles								
4 •	-			_	•		3,702	.992
Merchandise and other			enum	erate	d abo	ove,	8,573	2.296
Total tons carried,	_	-		_	_	_	373,300	100.00

#### ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.
One and one-half first-class on local business.
First class on through business.
A general express business.
Freight taken at depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 142 miles telephone; owned by this Company.

#### TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York city, mileage, \$1,291.71.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Arms Palace Horse Car Co., Buffalo, N, Y.,	-	-	-	<b>\$</b> 3	17
Austell Refrigerator Car Co., Atlanta, Ga.,	-	-	_	1	57
Blue Line, Rochester, N. Y.,	_	_	_	562	26
Canada Southern Line, Rochester, N. Y.,	-	-		209	57
Commercial Express Line, Buffalo, N. Y.,	_	-	_		81
Empire Line, Philadelphia, Pa,	_	_	_	4	96
Erie Despatch, Chicago, Ill.,	-	_	-	•	78
Great Eastern Line, Montreal, Can.,	_	-	-	2	17
Merchants' Despatch Trans. Co., New York,	-	_	_	81	73
Midland Line, Buffalo, N. Y.,	_	-	_	•	80
National Car Co., St. Albans, Vt.,	_	-	_	3	95
New York Live Stock Express, New York,	_	_	-	1	57
Swift Refrigerator Trans. Co., Chicago, Ill.,	-	_	-	130	34
Pittsburgh & Toledo Despatch, Allegheny, Pa	و .	·* •	_	9	20
		_	-	8	65
Union Line, Pittsburgh, Pa.,	-	-	_	•	58

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

April 7. Jos. Rivard, brakeman, Mud Lake, derailment.

May 24. Thos. Rowe, brakeman, Mud Lake, fell from train.

June 15. Jos. LeClair, brakeman, Mud Lake, tree striking him while on train.

July 31. Edw. Garland, Mud Lake, trespasser; asleep on track.

August 16. Jas. O'Hara, Tawas City, attempted to board moving train while intoxicated.

September 12. Jno. Frazier. Lond's Branch, trespasser; fell from train. October 2. Geo. V. Bailey, Emery Junc., trespasser; asleep on track.

#### INJURED.

February 18. Sam. Hart, brakeman, Hale, fell from train. March 26. Ed. Rutherford, brakeman, Roe Lake, coupling. May 7. Jos. Grice, brakeman, Alger, coupling.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions								
Coupling cars					2			
Derailments		1			<u>:</u>			
Falling from trains		1			1			
Frogs					i			
Getting on and off trains	_	 						
Highway crossings	-							
Miscellaneous		1			ļ:			
Overhead obstructions								
Trespassers on trains		· • • • • • • • • • • • • • • • • • • •	. 2			<b> </b>		
Trespassers on tracks	-		2			ļ		
Total		. 8	4		3			

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	-	-	_	7
Number of persons injured during the year,	_	-	-	3
Number of casualties purely accidental,		-	_	6
Number resulting from lack of caution, careles	suess	, or 1	nis-	
conduct,	_	-	-	_

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen	i		
Brakemen	i	3	6
Conductors			
Engineers.		 	
Firemen		 	 
Laborers	1	ı	,
Shopmen	·		 
Yardmen	,		
Not classified above			· :
Total	3	3	

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

M. S. Smith, Vice President, and J. C. McCaul, Auditor, of the Detroit, Bay City & Alpena Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

M. S. SMITH, Vice President. J. C. McOAUL, Auditor.

Subscribed and sworn to before me this 4th day of April, A. D. 1888.

[L. s.]

G. H. STALKER,

Notary Public, Wayne Co., Mich.

#### ANNUAL REPORT

#### OF THE

# CHICAGO & WEST MICHIGAN RAILWAY COMPANY.

For the Year ending December 31, 1887.

[Filed April 9, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Vice President and Gen. Manager, J. B. MULLIKEN, Muskegon, Mich.

Secretary, CHARLES MERRIAM, Boston, Mass.

Auditor, U. B. ROGERS, Muskegon, Mich.

Treasurer, CHARLES MERRIAM, Boston, Mass.

General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.

Traffic Manager, W. A. CARPENTER, Muskegon, Mich.

Chief Engineer, J. W. PETHRAM, Grand Rapids, Mich.

Superintendent of Telegraph, F. O. NYE, Holland, Mich.

Assistant Treasurer, CHARLES L. GUNN, Muskegon, Mich.

Ass't General Passenger Agent, WM. A. GAVETT, Grand Rapids, Mich.

Asst General Freight Agent, M. W. ROSE, Grand Rapids, Mich.

Attorney, F. A. NIMS, Muskegon, Mich.

#### DIRECTORS.

- H. H. HUNNEWELL Boston, Mass.
- C. F. ADAMS, Boston, Mass.
- G. O. SHATTUCK, Boston, Mass.

CHARLES MERRIAM, Boston, Mass.

- N. THAYER, Boston, Mass.
- J. H. BLAKE, Boston, Mass.
- E. V. R. THAYER, Boston, Mass.
- A. H. HARDY, Boston, Mass.
- J. B. MULLIKEN, Muskegon, Mich.

Term expires April 18, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October 1, 188	1.		
Number of stockholders at date of last election,	-		600
Number of stockholders in Michigan at same date,	-		2
Amount of full paid stock held in Michigan at same date, _	-		<b>\$</b> 11,000 00
Date of annual meeting of stockholders,—Third Wednesday in	Apri	1.	
Fiscal year of Company ends December 31.			
General offices of the Company are located at Boston, Mass., O	<b>}ran</b> d	Rapid	is, and Mus-
kegon, Mich.			

## GENERAL EXHIBIT.

				Da	BIT.	Cre	DIT.
Total income, _ • Total expenses, including taxes,	-	-	-	<b>\$</b> 1,06 <b>4</b> ,629	32	<b>\$1,414,022</b>	69
Net income,	-	-	-		-	<b>\$349,393</b>	37
Interest on funded debt, Balance applicable to dividends, Dividends declared (2½ per cent)		- -		232,25 <b>3</b> - 153,755	-	117,140	04
Balance for the year,	-	-	-	\$36,614	96		
Balance (profit and loss) last yea Items not included in above, as f		- ows:	-		-	241,736	95
Miscellaneous interest, Balance forward to next year,	- -	-	-	217,169	80	12,047	81
				\$253,784	76	\$253,784	76
ANALYSIS  Amount authorized by charter or Par value of shares, No. of shares issued, Amount paid in on common, Amount paid in on preferred, Amount paid in on shares no issued (number —),	ar - -		f as 00 31 -			<b>\$</b> 6,800,000	00
, , , , ,		•					

Total amount paid in as per books of the Company, \$6,796,800 00

Paid in per mile of road owned by Com-

pany,—miles, 413.94, .

\$16,419 77

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Chicago & Michigan Lake Shore R. R. Co., first mortgage bonds on 126 9-10 miles of road, New Buffalo to Mus-				
kegon, Mich., issued September I, 1869 Grand Rapids, Newaygo & L. S. R. R. Co., first mortgage bonds on 36 miles of road, Grand Rapids, to Newaygo,	8 per cent	Sept. 1, 1889	Bank of Com- merce, N. Y	\$480,000 OC
Mich., July 1, 1871	8 per cent	July 1, 1891	Union Trust Co., N. Y	578,000 00
road, Newaygo to White Cloud, June 1, 1875. 2. & W. M. R'y mortgage on 418 94-100 miles of consolidated line, subject to	7 per cent	June 1, 1905	Union Trust Co., N. Y	24,000 00
the above mortgages, December 1, 1881	5 per cent	Dec. 1, 1921	Co.'s office, Boston	2,940,000 00
Total funded debt				\$4,020,000 00

## UNFUNDED DEBT.

For What Incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For renewals		 
For miscellaneous	To be paid from earnings	\$1,344 70
For current balances	To be paid from earnings	220,059 71
Total unfunded debt		\$221,404 56

## RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	-	<b>\$</b> 4,020,000 221,404			
Total debt liabilities,	•	-	-	-	-	-	-	\$4,241,404	55		
Amount of debt liabilities	per	mile	of ros	d—41	13.94	miles	, -	10,246	42		
Total amount of stock and Stock and debt per mile of			-	- -,	-	-	-	11,038,204 26,666			
GENERAL BALANCE SHEET Dr.											
Construction account, Equipment account,	-	-	-	-	-	-	- -	<b>\$9,178,775</b> 1,136,711			

<i>2</i> 0∓	MIC	DIGAL	I KAI	LAUA	D K.	eiums.		[Dec, 5	1.
Other investments (s C. & W. M. Ry. C Muskegon Railway Muskegon Lake R	o. stor	ck, stock,	-	-		\$582,992 23,100 33,600	00		
224020802 2020 20			·, -	-			_	<b>\$</b> 639,692	31
Oash items:								-	
Oash,	-	-	-	-	-	\$36,599			
Bills receivable	-	-	-	-	-	82,036			
Due from agents,	-	•	-	-	-	9,706	17	100 949	10
Other assets:  Materials and sup Debit balances from	plies,	,	_	_	_	\$71,078	90	128,342	10
Debit balances from	n com	panies	and	indiv	idu <b>a</b>	ls, 100,774	33		
		_						171,853	23
Total,	-	-	-	-	-		-	\$11,255,374	35
	GEN	ERAL	BAL	ANCE	SHE	EET,—Cr.			
Capital stock,	_	_			_		_	<b>\$6,796,800</b>	00
Funded debt:	-	-	-	-	-		•	<b>4</b> 0,100,000	•
C. & W. M. Ry. C	0., 5	% bor	ıds,	-	_	\$2,940,000			
C. & M. L. S. R.	K. Co.	8 %	bon	ds.	_	480,000			
G. R. N. & L. S.	R. R.	Co., 8	% b	onds,		576,000	00		
G. R., N. & L.	S. R.		-			04.000	^^		
ion, 7 % bonds	-	-	-	-	-	24,000	-00	4,020,000	00
								4,020,000	00
Unfunded debt:									
Interest unpaid:									
Not due, Bond coupons n	-	_	-	-	_	<b>\$48,23</b> 0			
Bond coupons n	ot pre	sented	ì,	-	-	6,275			
Dividends unpaid Vouchers and acco	,	-	-	-	-	20			
Vouchers and acco	ounts,				-	166,483			
Other liabilities,	-	-	-	-	-	395	61		**
Profit and loss or in	00 m 0	00000	mta					22:,404 217,169	8U 99
Profit and loss, or in	соще	accou	пъ,	-	-		-	217,109	
Total,	-	-	-	•	-		-	\$11,255,374	35
	cosi	OFF	OAD	AND	EQU	JIPMENT.			
	Pu	ırchase	d by	Preser	t Co	mpany.			
When purchased,—C Original cost to pres	otabe ent C	r 1, 1	881. 1 <b>v.</b> of	road	and	l equipment	; <u> </u>	<b>\$</b> 8,578, <b>4</b> 30	84
Amount expended s	nce p	urcha	se, ac	count	of o	construction	, -	1,141,332	
Amount expended si	nce p	urchae	e, ac	count	of (	equipment,	-	595,723	43
Total cost to date o	f repo	ort,	-	-	-		-	10,315,486	81
Proportion of cost f			1,	-	-		-	9,456,735	12

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

## MAIN LINE.

Right of way,		-	-		-	-	-	٠-	-	\$3,406	
Bridges, culver	ts and	cattle	gua	rds,	-	-	-	-	-	15,008	
Extensions,	-	-	-	-	-	-	-	-	-	687	
New buildings,	-		-	- ,	-	-	-	-		15,423	93
New fences,	-	-	-	-		-	-	-	-	12,286	80
Machinery and	tools,		-	-	-	_	_	-	-	2,457	56
New cars,	- 1	-	-	-	-	-	-	-	-	138,472	90
Total char	ges to	proper	ty ac	coun	tas s	bove,	-	-	-	\$187,743	97
Property sold a	and cre	edited,		-	-	-	-	-	-	2,262	08
Net additi	on to p	ropert	y ac	count	<b>&gt;</b>	_	_	-		\$185,481	89

## ANALYSIS OF EARNINGS.

## PASSENGER FARNINGS.

Main line and branches: Local fares, Through fares,	-		-	<b>\$</b> 443,580 18 6,434 74	
Total passenger fares, .	-	-	-	\$450,014 92	
Express and baggage, . Mails,	-	- -	-	<b>\$</b> 33,529 93 34,598 88	
Total passenger earnings,	-	-	-		\$518,143 73
Proportion for Michigan, Per train mile, Per mile of road,	-	- · -	- -	\$475,008 90 0 81 1,251 74	

## FREIGHT EARNINGS.

Main line and branc	hes:								
Local traffic, _	-	_	-	-	-	\$877,807	83		
Through traffic,	-	-	-	-	-	11,308	67		
Total traffic,	-	-	-	-	-	\$889,116	50		
Miscellaneous fre	ight e	arnin	gs,	-	-	1,321	04		
Total freight es	rnin	gs,	-	-	-		_	\$890,437	54

Proportion for Michigan,   156	Proportion for							-		1 Dec	01.
Transportation earnings per mile of road,	Per train mile Per mile of ro	r Michigan,	-		- - -	- - -	<b>\$8</b> 1	16,309 1 2,151	70 56 13		
Transportation earnings per train mile, 1 17  Miscellaneous receipts from operating account, other than for transportation, as follows:  From other sources, 5,441 42  Total earnings from operation of road, \$1,414,022 69  Total earnings per mile of road, \$3,416 01  Total earnings per train mile, 1 17  Proportion of taxable earnings for Michigan, 1,296,307 03  Total taxable earnings per mile of road in Michigan, 1,296,307 03  Total income other than from earnings, 12,047 81  Total income from all sources, \$1,426,070 50  Proportion of income for Michigan, 1,307,351 87   ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$139,180 67  Renewals of rails, 32,465 88  Renewals of ties, 30,162 50  Repairs of bridges, including culverts and cattle guards, 24,500 68  Repairs of bridges, including culverts and cattle guards, 8,279 36  Repairs of bridges, road crossings, and signs, 8,279 36  Repairs of bridges, road crossings, and signs, 8,279 36  Repairs of bridges, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  Repairs of fences, road crossings, and signs, 8,279 36  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of freight cars, 100,296 36  Total, \$238,094 95	Total tran	asportation	earni	ngs,	-	-	-	-	-	<b>\$1,4</b> 08,581	27
Total earnings from operation of road, \$1,414,022 69  Total earnings per mile of road, \$3,416 01 Total earnings per train mile, 1 17 Proportion of taxable earnings for Michigan, 1,296,307 03 Total taxable earnings per mile of road in Michigan, 3,416 01 Income other than from earnings, 12,047 81  Total income from all sources, \$1,426,070 50  Proportion of income for Michigan, 1,307,351 87  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$139,180 67 Renewals of rails, \$32,465 88 Renewals of ties, \$30,162 50 Repairs of bridges, including culverts and cattle guards, \$24,500 68 Repairs of fences, road crossings, and signs, \$8,279 36 Repairs of buildings, \$22,215 55  Total, \$256,804 64  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 60,469 42 Repairs of freight cars, 100,296 36  Total, \$238,094 95  CLASS 3.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	Transportation Miscellaneous other than i	n earnings receipts fro for transpor	per m ope tation	train ratin 1, as 1	mile gacce follow	ount, s:	•	3,402 1	86 17		40
Total earnings per mile of road, \$3,416 01 Total earnings per train mile, 1 17 Proportion of taxable earnings for Michigan, 1,296,307 03 Total taxable earnings per mile of road in Michigan, 3,416 01 Income other than from earnings, 12,047 81  Total income from all sources, \$1,426,070 50  Proportion of income for Michigan, 1,307,351 87   ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$139,180 67 Renewals of ties, 32,465 88 Renewals of ties, 30,162 50 Repairs of bridges, including culverts and cattle guards, 24,500 68 Repairs of fences, road crossings, and signs, 8,279 36 Repairs of fences, road crossings, and signs, 22,215 55  Total, \$256,804 64  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 60,469 42 Repairs of freight cars, 100,296 36  Total, \$238,094 95  CLASS 8.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	From other so	urces, _	-	-	-	-	-	-	-	5,4 <del>4</del> 1	42
Proportion of taxable earnings for Michigan, 1,296,307 03   Total taxable earnings per mile of road in Michigan,	Total ear	nings from o	perai	tion o	f roa	d,	-	-	-	\$1,414,022	69
Total income from all sources,   \$1,426,070 50	Total earnings Proportion of Total taxable	s per train n taxable ear earnings pe	nile, nings er mi	for le of	Mich:	igan, in	1,29	6,307	03		
Total income from all sources, \$1,426,070 50  Proportion of income for Michigan, 1,307,351 87  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$139,180 67 Renewals of rails, 32,465 88 Renewals of ties, 30,162 50 Repairs of bridges, including culverts and cattle guards, 24,500 68 Repairs of fences, road crossings, and signs, 8,279 36 Repairs of buildings, 22,215 55  Total, \$256,804 64  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 60,469 42 Repairs of freight cars, 100,296 36  Total, \$238,094 95  CLASS 8.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	Michigan,			-	-	-		3,416	01		
ANALYSIS OF EXPENSES.   CLASS 1.—Maintenance of Way and Buildings.	Income other	than from e	arnin	igs,	-	-	-	-	-	12,047	81
ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track,	Total inco	ome from al	l soui	ces,	-	-	-	-	-	\$1,426,070	50
Class 1.—Maintenance of Way and Buildings.   \$139,180 67	Proportion of	income for	Mich	igan,	•	-	-	-	-	1,307,351	87
Renewals of rails,   32,465 88								•• ••			
Renewals of rails,   32,465 88		CLASS 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ce uj	way c	ina Bi	uuaing	o.		
Repairs of bridges, including culverts and cattle guards, 24,500 68   Repairs of fences, road crossings, and signs, 8,279 36   Repairs of buildings, 22,215 55   Total, 256,804 64   Class 2.—Maintenance of Motive Power and Cars.   Repairs of locomotives, 60,469 42   Repairs of passenger cars, 60,469 42   Repairs of freight cars, 100,296 36   Total, 238,094 95   Class 3.—Conducting Transportation.   Fuel for locomotives, 3115,277 75   Water supply, 7,242 51	Rangirs of ros					way c	ina B	uuaing	o.	<b>2</b> 139 180	67
Repairs of bridges, including culverts and cattle guards,	Repairs of roa	dway and ti	ack,	-			-	-	- -		
Repairs of fences, road crossings, and signs,   8,279 36   22,215 55   22,215 55	Renewals of ra	dway and tr	rack,	- -	-	-	-	<u>-</u> -	-		
Total, \$256,804 64  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives, \$77,329 17 Repairs of passenger cars, 60,469 42 Repairs of freight cars, 100,296 36  Total, \$238,094 95  CLASS 3.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	Renewals of ra	dway and tr	rack,	- -	-	-	-	<u>-</u> -	-	32,465 30,162	88 50
Total, \$256,804 64  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives, \$77,329 17 Repairs of passenger cars, 60,469 42 Repairs of freight cars, 100,296 36  Total, \$238,094 95  CLASS 3.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	Renewals of ra Renewals of ti- Repairs of brid	dway and trails, es, dges, includ	rack, - - ing c	- - ulver	ts and	- l catt	- - le gus	- - ards.	-	32,465 30,162 24,500	88 50 68
CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen	dway and trails, - es, - dges, includ	rack, - ing c	- ulver gs, aı	ts and	- l catt	- - le gus	- - ards.	-	32,465 30,162 24,500 8,279	88 50 68 36
Repairs of locomotives,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui	dway and trails, - es, - dges, includ	rack, - ing c	- ulver gs, aı	ts and	- l catt	- - le gus	- - ards.		32,465 30,162 24,500 8,279 22,215	88 50 68 36 55
Repairs of passenger cars,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui	dway and trails, - es, - dges, includ	rack, - ing c	- ulver gs, aı	ts and	- l catt	- - le gus	- - ards.		32,465 30,162 24,500 8,279 22,215	88 50 68 36 55
Repairs of passenger cars,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui	dway and trails, - es, - dges, includ ces, road co ldings,	rack, - ing c rossin -	- ulveri gs, ai	- ts and ad sig	catt gns,	- - - le gua - - -	- - ords, - -		32,465 30,162 24,500 8,279 22,215	88 50 68 36 55
Total,   100,296 36	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total,	dway and trails, - es, - dges, includes, road cra ldings, - CLASS 2.—M	rack, - ing c rossin -	- ulveri gs, ai	- ts and ad sig	catt gns,	- - - le gua - - -	- - ords, - -		32,465 30,162 24,500 8,279 22,215 \$256,804	88 50 68 36 55 64
CLASS 8.—Conducting Transportation.  Fuel for locomotives, \$115,277 75 Water supply, 7,242 51	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total,	dway and trails, - es, - dges, includeces, road or ldings, - CLASS 2.—Momotives,	ing crossin	- ulveri gs, ai	- ts and ad sig	catt gns,	- - - le gua - - -	- - ords, - -		\$2,465 30,162 24,500 8,279 22,215 \$256,804	88 50 68 36 55 64
Fuel for locomotives,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total, Repairs of local Repairs of pass	dway and trails, - es, - dges, includeces, road or ldings, - CLASS 2.—Momotives, senger cars,	rack, - ing c rossin fainter	- ulveri gs, ai	- ts and ad sig	catt gns,	- - - le gua - - -	- - ords, - -		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469	88 50 68 36 55 
Fuel for locomotives,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total, Repairs of local Repairs of pass Repairs of frei	dway and trails, - es, - dges, includeces, road or ldings, - CLASS 2.—Momotives, senger cars,	rack, - ing c rossin Cainter	- ulveri gs, ai	- ts and ad sig	catt gns,	- - - le gua - - -	- - ords, - -		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469 100,296	88 50 68 36 55 64 17 42 36
Water supply,	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total, Repairs of local Repairs of pass Repairs of frei	dway and trails,	ing crossin	ulverigs, an	ts and sign of Mo	catt gns, - - otive F	- le gua - - - - - - - - -	and C		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469 100,296	88 50 68 36 55 64 17 42 36
	Renewals of ra Renewals of ti Repairs of brid Repairs of fen Repairs of bui Total, Repairs of loca Repairs of pass Repairs of frei	dway and trails, - es, - dges, includ ces, road or ldings, - CLASS 2.—Monotives, senger cars, ight cars,	ing crossin	ulverigs, an	ts and sign of Mo	catt gns, - - otive F	- le gua - - - - - - - - -	and C		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469 100,296 \$238,094	88 50 68 36 55 64 17 42 36  95
Ull and waste, 10,113 45	Renewals of ra Renewals of ti Repairs of bric Repairs of fen Repairs of bui Total,  Repairs of loco Repairs of pass Repairs of frei Total,	dway and trails, - es, - dges, includ ces, road or ldings, - CLASS 2.—Monotives, senger cars, ight cars, - CLASS	ing crossin	ulverigs, an	ts and sign of Mo	catt gns, - - otive F	- le gua - - - - - - - - -	and C		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469 100,296 \$238,094	88 50 68 36 55 64 17 42 36  95
	Renewals of ra Renewals of ti Repairs of bric Repairs of fen Repairs of bui Total,  Repairs of loco Repairs of pass Repairs of frei Total,  Fuel for locom Water supply,	dway and trails, - es, - dges, includ ces, road or ldings, - CLASS 2.—Monotives, senger cars, ight cars, - CLASS	ing crossin	ulverigs, an	ts and sign of Mo	catt gns, - - otive F	- le gua - - - - - - - - -	and C		\$2,465 30,162 24,500 8,279 22,215 \$256,804 \$77,329 60,469 100,296 \$238,094 \$115,277 7,242	88 50 68 36 55 64 17 42 36 95

1887.] CHICAGO	& WEST M	ICHI	JAN	KAII	JWAY	CO.		287
Locomotive service,							\$96,503	79
Passenger train service,		-	-	•	-	-	31,274	
Passenger train supplies,		-	•	-	-	•	2,588	
Wilsons of management		-	•	•	-	-		
Mileage of passenger cars,		-	•		-	-	6,730	
r reight train service,		-	-		-	,-	45,929	
Freight train supplies,		-			-	-	744	
Mileage of freight cars,			-		-	-	13,848	
Telegraph expenses (main	tenance and	d ope	ratir	1g),	-	-	24,582	66
Damage and loss of freigh	it and bagg	gage,	-	-	-	-	981	82
Damages to property and	cattle,	_	_	_	_	-	2,291	17
		-	-		_	_	5,940	59
Personal injuries, Agents and station service,		_	_		_		91,751	
Station supplies,		_	_		_	-	5,235	
custion supplies,		-	-	-	-	-		
Total,		-	-	-	-	-	\$461,035	93
c	CLASS 4.—Ge	meral	Exp	en <b>ses.</b>			·	
Salaries of the general offi	core of the	Cor	nnan	v			\$28,683	95
Salaries of clerks in gener				.1,	-	-	28,228	
Tom orners	ai umoes,	-	-	-	-	-,		
Law expenses,		-	-	-	-	-	5,158	
Insurance, Stationery and printing,		-	-	-	•	-	5,841	19
Stationery and printing,		-	•	-	-	-	12,059	
Outside agencies and adver	rtising,		-	-	-	-	4,653	76
Contingencies, less \$6,427.	62 <b>,</b> _	-	-	-	-	-		
Taxes,		-	-		-	-	<b>30,4</b> 96	50
Total,		-	-	-	-	-	<b>\$</b> 108,693	80
REO	APITULATI	ON 0	F EX	PENS	ES.		ı	
					Per Of Ex	Cent penser	в.	
Maintenance of way and b	uildings,	-		-	24	.12	\$256,804	64
Maintenance of motive po	wer and car	·8.	•	_	22	.36		
Conducting transportation	• -	_				.31	461,035	
General expenses, includin	o taxes.	_	_	_		.21	108,693	80
a one of penson, including	, samos,	•	-	•				<del>-</del>
Total operating expen	ses and tax	es,	-	-	100	.00	<b>\$</b> 1,06 <b>4</b> ,629	32
Operating expenses and tar Operating expenses and tar for trains earning revent Proportion of operating Michigan—main line,	xes per tra ue, 1,207,68	in m 31 mi	ile i les,	on, for	\$2,571 76,000	88		
Total proportion of ex	penses for	Mich	igan	, -	-	-	<b>\$976,00</b> 0	23
Percentage of expenses to	earnings,	-	7	5.29	<b>A</b> C. 1 :	<b>.</b>		
Net earnings per mile of r				-	<b>\$844</b>			
Net earnings per train mile	e,—1,207.68	31 mi	les,	-		29		



## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 3, 1883.

From Grand Rapids, Mich, to LaCrosse, Indiana.

## MAIN LINE.

T- Wishiman						Miles, l	l00ths	Miles.	100ths.
In Michigan: From Michigan and Indiana a Mich., In Indiana: From Michigan & Indiana Sta	-	-	-	-	-	174	28 46	i	
Total length completed,	-	-	-	-	-	-	-	208	74
	BRA	NCHE	ts.						
From Holland to Allegan, From Holland to White Cloud, From Fruitport to Muskegon, From Kirk's Junction to Fruitp From Muskegon to Port Sherm From Big Rapids Junction to B From Mears to Hart, From White Cloud to West Tro From West Troy Junction to B From Lilley Junction to Sisson Woodville Logging Road,  Total length of branches owned	oort, an, ig Ra y, aldwi 's Mi	pids, - in, ll, - by C	- - - - - ompar	•	- - - - - - - - -	70 10 3 6 51 3 17 12 2	00 00 00 50 00 63 30 86 00 37 54	205	
gan, Total length of road belonging	to thi	is Co	mpanj	,	-	-	-	205 413	
Total length of road belonging Michigan, Aggregate length in Michigan other tracks not above enumer Aggregate length of tracks in	of s rated,	iding	, spu	178, 8	and -	379 95			
this Company, computed as a Gauge of track, 4 feet 8½ inches	ingle			-	-	-	-	474	79
		_				Total Mil			
Total miles operated by the Con  Number of Brid		•	- estles 1	- in M	- ich <b>i</b> g	413 an.	¥ <b>4</b>	379	48
Wooden bridges, number of, Iron bridges, number of,			egate egate					1	,312 215

Combination Wooden tres									1,121 22,627
Total,	-	•	-	193;		-	-	-	25,275
			Drau	v Bridge	in Mich	igan.			
W		1:2	1						

How many on your line?	-	-	-	_	_	_	' 6
Where located, whon built, and			f drav	v spai	ı:		
1. St. Joseph, 2 draws, each 7	1 fe	et.	-	-	-	-	142
2. Benton Harbor, 1 draw,	_		_	-	_	-	42
3. New Richmond, 1 draw,	_	_	_	-	-	-	60
4. Muskegon, 1 draw,	-	_	-	-	-	-	43
5. Montague, 1 draw,	_	-		-		-	<b>4</b> 3
6. Grand Rapids, revolving,	-	-	-	-	-	-	162
Character of structure							

1, 2, 3, 4, and 5, jackknife draw; 6, double-ended draw.

Material of which constructed:

1, 2, 3, 4, and 5, timber; 6, combination.

Height above water, and depth of water under bridge:

1, 18 feet; 2, 12 feet; 3, 16 feet, 20 feet; 4, 6 feet; 5, 9 feet; 6, 13 feet. How swung, by engine or hand power?

By hand power.

Approaches, straight or curved?

1, 3, and 4, curved; 2, straight; 5 and 6 curved at one end.

Do you require all trains to come to a full stop before crossing draw, and how are they signaled?

Yes; and flagged by watchman to proceed 4 miles per hour.

## Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Kalamazoo & South Haven R. R., at Grand Junction.
Lake Shore & Michigan Southern R. R., near Grandville.
Grand Rapids & Indiana R. R., at and near Grand Rapids.
Detroit, Grand Haven & Milwaukee R. R., at Grand Rapids.
Toledo, Saginaw & Muskegon R. R., at Sparta.
Toledo, Saginaw & Muskegon R. R., near Muskegon.
Muskegon, Grand Rapids & Indiana R. R., near Muskegon (twice).
Toledo & South Haven R. R., at Hartford.
\*What railroads cross your road either over or under your grade in this State, and where?

Under grade:

Michigan Central R R., at 1½ miles south of New Buffalo.

At what crossings are interlocking and derailing switches in operation?

Hartford.

What pattern or patterns have you adopted for use?
Allentown.

Number of crossings of highways at grade in this State,

470

1

 $<sup>\</sup>bullet$  C. & W. M. R'y Co. uses D. G. H. & M. track between Grand Haven and Ferrysburg. 37

.550	26.2	OMIG.							(Dec. 01.
Number of cros	sings of	hiah-		at orea	a in	thie :	Stata	at	
which there as	re dates of	r flaoi	men.	er grau	0 111	опто ,	Juane.	, au	23 ·
Number of cros	sings at w	hich	there	are e	ectri	cora	utom	atic	20
signals, .				_	-	-		-	2
signals, _ What pattern or	r patterns	in us	e?						
Pneumatic G	ate Comp	any;	Railre	oad Sw	ritch	Signa	1 & C	ate	
Company, (						_		_	
Number of cro		_	-					road	
(over, 9; und Number of high	ler, 11),				<u>-</u>	-	-	•	20
Number of high	way brid	ges, 1	9 1661	800Ve	trac	k,	tua al-	-	? 1
Have safety-guar	rda haan a	ractad	ge m	MOT-he	ad ol	hetrno	tions:	, -	Yes.
Are your frogs	and guard	rails	block	ed as r	eauir	ed by	Act 1	74.	100.
Session Laws					_	-			Y es.
How are they tr	eated?							_	
They are block		wood,	and	have a	gene	ral in	spect	ion mor	ithly.
<u>-</u>					_		_		•
				tations	,				
				14440140	•				
Number of stati	ons on w	hole li	ne,	_		-	_	-	118
Same in Michiga	an, -		_	-	-	-		• -	112
			E	mployé	3.				
<b>37</b> 1 4	,		,						
Number of pers	ons regul	arly e	mplo	yed or	all	roads	opera	ited	1 910
by Company, Same in Michig	including	omo	iais,	-	-	-	•	-	1,319
Classify your en	au, . Intovás es	nar f	ollow	ing lie	-	-	-	•	1,280
Classify your on	ipioyos as	por I	0110 #	ing in					Number.
Baggagemen,		_	_	_	_	_	_	_	13
Brakemen,				_		-	_	-	87
Brakemen, Conductors,		-	-	-	-		-	_	44
Engineers, Firemen, Laborers, Shopmen, Yardmen, Others,		-	-	-	-	-	-	-	• 53
Firemen,		-	-	-	-	-	-	-	58
Laborers,		•	-	-	-	-	•	-	523
Shopmen,		-	-	-	-	-	-	-	188 30
1 arumen,		•	•	-	-	•	-	-	323
Others,		•	-	-	-	•	-	-	0.20
		REPA	IRS A	ND R	ENEW	ALS.			
		Fe	ncing	in Mi	chiga	n.			
TT	4 <b>1</b>	na h							689
How many mile Give the numb	an Ot wil	ов ьоч пЯ пя	nirod	uu: Itoo	- mnle	ata fa	nce l	- oth	009
sides of your									
needed:			-o,	VII	.5 500		***		
'Oceana, News	aygo, and	Lake	, -	-		-	-	-	69
			-						
Total miles	, -	-	-	-	-	-	-	-	69

## Road Bed and Track.

Number of track sections in Michigan,	73
Average length of sections (miles),	5.5
Average number of men in each section gang,	3
Number of new ties put in whole line during the year,	193,260
Number of new ties put in track in Michigan,	184,069
Average number of new ties per mile of road,	467
New rails put in track:	
Steel [tons 1,000] miles,	11
Total miles of track laid with new rails,	11

## Bridges and Culveris.

Amount of trestle work replace	d wi	th ear	t <b>h</b> d	luring	the y	ear	
(linear feet),	-	-	_	-	. •	_	2,461
Timber culverts replaced during	the	year,	-	-		-	24
With iron pipe—number,	-	_	-	-	_	-	17
With sewer pipe,—number,	-	-	-	-	-	-	6
With timber,—number,	-	_	_	•-	-	_	1
New bridges built during the ye	ar,—	-numb	er,	-		-	8

Location.	Kind.	Material.	Month Built.	Feet in Length.
Hudsonville (two)	Pile	Timber	April,120 ft., 80 ft.	150
Hartford (two)	Pile	Timber	July 264 ft., 150 ft.	414
Riverside	Pile, Howe truss	Timber	September	250
L. S. & M. S. R'y Crossing	Pile	Timber	October	45
Twin Lake	Pile	Timber	November	120
Near Newaygo	Overhead	Timber	August	150

## ROLLING STOCK.

Number of locomotives of more than 30 tons weight,	Number.	Present Estimated Value.
exclusive of tender,	33	<b>\$99,000</b> 00
exclusive of tender,	12	30,000 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender,	2	2,000 00
Total,	47	131,000 00
Number of passenger cars—8-wheel, including		
official cars,	39	78,000 00
Number of express and baggage cars,	22	22,000 00
Number of box freight cars,	793	178,425 00

							-
•					Numb	er. <sub>Hai</sub>	Present timated Value.
Number of stock cars,		_	_	-		5	\$1,000 00
Number of platform car	rs,	_	_	_	1,00	04	150,600 00
Number of conductor's Other cars as follows:	way cars,	-	-	-	-	21	4,200 00
Log cars, 17; tool car	rs. 2 : pile di	ivar.	1 : 81	now			
plows, 4; excavato	ors. 2: hoard	ding (	Cars.	4:			
painters' car, 1; car	rpenters' car.	1: W	7. <b>M</b> .	Ē.			
& L. L., *200,		-	-	-	28	32	55,350 00
Total,		-	-	-	2,11	16	<b>620,57</b> 5 00
Number of locomotive	es equipped	with	ро	wer			
brakes,	train cars e	- guippe	od w	rith		33	
power brakes.			_		Į	52	
What patterns of power and number of locom	r brakes hav otives and ca	e you	in u	ase, ch?			
Westinghouse air:							
Locomotives,		_	_	_	9	33	
Cars,		_	_	_	ŧ	52	
American steam:							
Locomotives,		-	_	_	-	-	10
Yes. What pattern or pattern Using the "Cowell"	ns have you s coupler. Ha	dopte ve no	d for t add	usei opted	any pat	tern a	s standard.
	MILEAGE,	TRAF	FIC,	ETC.			
	Train	Mileo	ıge.				
Miles run by passenger	trains during	the	year,		-	-	638,198
Miles run by freigt train	is during the	year,	-	-	•	-	569,483
Total mileage of tra	ains earning r	evenu	θ,	-	-		1,207,681
	Passen	ger Tr	affic.				
			1	Numbe Quan	rs and tities.	Miles.	
Number of through passen	sengers carrie gers carried,	d, -	- -	3, 581,	962 249		
Total number of pa	ssengers car	ried,	-	585,	211		
					ile, 17,8		

<sup>\*</sup> These West Michigan Equipment Co. & Lumber Line cars are operated by the C. & W. M. Railway Co., under a lease.

			O1 III.		<b>441</b> 1	I	W A	Y CO.	293
									Rate.
Average em	ount received	from o	ach r		n WOT				<b>8</b> 0 77.99
Average and	of fare per n	nila far	n than	nacoou.	тяот,	- mare			02.20
A verege rate	of fare new r	nile for	• loos	Jugu	haosa	oza mRera	, -		00.00
Average rate	of fare per n	nile for	. 100 <i>8</i>	no act	on war	o.,	-		
Trerage law	or rate ber	II 11 <del>0</del> 101	r <b>a</b> 111	hassa	enker	5, -	-		02.02
		1	Freigh	t Tre	affle.				
Number of	tons of throug	gh frei	ght	carri	ed,	8,			
Number of	tons of local f	reight	carri	ed,	-	907,	833		
Total to	ons of freight	carried	ì,	-	-	916,			
Total mileag	e of through	freigh	t,	_	-	_	_	942,850	)
Total milea	ge of local fre	ight,	-	-	-	-		61,312,915	
Total fr	eight mileage	, or to	ns ca	rried	one	mile,	_	62,255,765	•
	_								
Average ton	haul for thro	ugn ir	eignt	, -	-	-	-	114.56	
Average ton	haul for local	reign	1t,	-	-	-	•	67.54	•
Average ton	haul for all fount received:	reight,	,	-	, -	-	-	67.96	00.00
Average amo	ount received	ior eac	h tor	n hau	ш,	-,	. :		97.06
Average rate	per ton per r	nile, re	BC <del>0</del> 176	o Io	r thro	ough 1	11018	gnt,	
	per ton per r								01.432
Average rate	per ton per n	nile, re	9C61V6	ea to	r all	ireigh	t, _		01.428
	Freight	Forwa	ırded	at M	[ichigo	an Sta	tion	8.	
	Freight	Forwa	ırded	at M	lichige	an Sta	tion	8.	Forwarded,
Grain	•		ırded	at M	lichige	ın Sta	tion	8.	Tons.
		-	-	_	_	-	-	<b>8.</b> 	Tons. 27,892
		-	-	_	_	-	-	 	Tons. 27,892 9,878
Flour, Provisions (b	peef, pork, lar	- d, etc.	- - ),	-	-	-	- - -	 	Tons. 27,892 9,878 1,119
Flour, Provisions (the Animals,	peef, pork, lar	- d, etc.	- - ).	-	-	-	-	  	Tons. 27,892 9,878 1,119
Flour, Provisions (the Animals,	peef, pork, lar	- d, etc.	- - ).	-	-	-	-		70ns. 27,892 9,878 1,119 3,909 15,777
Flour, Provisions (the Animals, Other agricultumber and	peef, pork, lar	d, etc.	- ). -	-	-		-		Tons. 27,892 9,878 1,119 3,909 15,777 549,569
Flour, Provisions (the Animals, Other agricus Lumber and	peef, pork, lar	d, etc.	- ). -	-	-		-		Tons. 27,892 9,878 1,119 3,909 15,777 519,569 33,164
Flour, Provisions (the Animals, Other agricus Lumber and Coal, Plaster, lime	peef, pork, lar	d, etc. ts. ts,	- ), - -	-					Tons. 27,892 9,878 1,119 3,909 15,777 519,569 33,164
Flour, Provisions (the Animals, Other agricus Lumber and Coal, Plaster, lime	peef, pork, lar	d, etc. ts. ts,	- ), - -	-					Tons. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256
Flour, Provisions (the Animals, Other agricus Lumber and Coal, Plaster, lime Pig and bloo Stone, brick	peef, pork, lar litural product forest product and cement, in iron, and sand.	- rd, etc. - ts. - - -	),		-	-			Tons. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256
Flour, Provisions (the Animals, Other agricus Lumber and Coal, Plaster, lime Pig and bloo Stone, brick	peef, pork, lar	- rd, etc. - ts. - - -	),		-	-			70ns. 27,892 9,878 1,119 3,909 15,777
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise	peef, pork, lar litural product forest product and cement, in iron, and sand.	- rd, etc. - ts. - - -	),		-	- - - - - - - - - - - - - - - - - - -			Tone. 27,892 9,878 1,119 3,909 15,777 5,9,569 33,164 18,415 63,256 21,391 120,228
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise	peef, pork, lar altural product forest product and cement, in iron, and sand, and other are	d, etc. ts. tts, - - - cicles n	- - - - - - - - - -	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise	peef, pork, lar ditural product forest product and cement, om iron, and sand, and other are	d, etc. ts. tts, - - - cicles n	- - - - - - - - - -	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 5,19,569 33,164 18,415 63,256 21,391 120,228 864,598
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise	peef, pork, lar ditural product forest product and cement, om iron, and sand, and other are	d, etc. ts. tts, - - - cicles n	- - - - - - - - - -	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228 864,598
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise	peef, pork, lar ditural product forest product and cement, om iron, and sand, and other are	d, etc. ts. tts, - - - cicles n	- - - - - - - - - -	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228 864,598  Per Cent-
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise  Total for Grain, Flour,	peef, pork, lar altural product forest product and cement, om iron, and sand, and other are prwarded,	d, etc. tts. cits, cicles n	ot er	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228 864,598  Per Cent- 3.39 1.14
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise  Total for Grain, Flour, Provisions (1)	peef, pork, lar ditural product forest product and cement, om iron, and sand, and other are	d, etc. tts. cits, cicles n	ot er	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -		Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228  864,598  Per Cent- 3.39 1.14 12
Flour, Provisions (the Animals, 1) Other agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise  Total for Grain, Flour, Provisions (the Animals, 1)	peef, pork, lar iltural product forest product and cement, m iron, and sand, and other are prwarded,  Tonnage of	d, etc. ts. tis, cicles n f Artic	ot er	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -	Coad. Tons. 30,998 10,416 1,133	Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228  864,598  Per Cent- 3.39 1.14 12 43
Flour, Provisions (the Animals, 10 ther agricus Lumber and Coal, Plaster, lime Pig and blood Stone, brick Merchandise Total for Grain, Flour, Provisions (the Animals, 10 ther agricus Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Cont	peef, pork, lar altural product forest product and cement, om iron, and sand, and other are prwarded,	d, etc. tts. cicles n f Artic	ot er	- - - - - - - - nume	- - - - - - - - - -	- - - - - - - - above	- - - - - - - - - -	coad. Tons. 30,998 10,416	Tone. 27,892 9,878 1,119 3,909 15,777 519,569 33,164 18,415 63,256 21,391 120,228 864,598  Per Cent- 3.39 1.14 12 43 2.07

						Tons.	Per Cent-
Coal,	_	_	-	-	_	65,456	7.15
Plaster, lime and cement,	_	_	_	_	-	18,732	2.04
Pig and bloom iron,	-	-	-	-	-	63,854	6.97
Stone, brick and sand,	_	-	_	_	_	21,899	2.39
Merchandise and other articl	es not	enur	nerated	abo	ve,	128,728	14.05
					_		
Total tons carried,	-	-	-	-	-	916,063	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company.

Pays seven cents per ton per mile for all freight it carries over the line, except for small fruits, which are carried at an agreed rate. The messengers are carried free.

It does a general express business and takes its own freight at the Railway Company's Depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Six hundred and one miles. Western Union Telegraph Co.

## TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Atlanta Stone, Coal and Lumber Co., Atlanta, Ga.,	-	_	<b>\$</b> 7	74
	_	-	7	74
Anglo-American Provision Co., Chicago, Ill.,	-	_	8	63
Armour Refrigerator Line, Chicago, Ill.,	_	_	1	77
Bousfield & Co., Bay City, Mich.,	_	-		3
*Blue Line, Rochester, N. Y.,	_	-	2,728	14
*Columbus & Hocking Coal and Iron Co., Columbus	0.,	•	1	39
Cupples, Sam'l, Wooden Ware Co., Grand Rapids, Mic		_	40	71
Cutler & Savidge Lumber Co., Indianapolis, Ind.,	_	-	11	89
*Canada Southern Line, Rochester, N. Y.,	_	-	1,134	82
*Erie Despatch, Indianapolis, Ind.,	_	_	65	<b>58</b>
*Empire Line, Philadelphia, Pa.,	_	-	33	93
Frazer Lubricating Co., Chicago, Ill.,	_	-	10	65
40 173 71 71 17	-	-	76	45
Hilt, J., Lake Ice Co., Indianapolis, Ind.,	_		26	43
Kilbourn, Silas & Co., Grand Haven, Mich.,	_	-	89	65
*Lackawanna Line, Buffalo, N, Y.,	-	-	2	59
*Merchants' Despatch Trans. Co., New York, NY.,	_	-	1,110	88
Morris, Edward, Refrigerator Line, Chicago, Ill.,	-	_	3	59
*Midland Line, Buffalo, N. Y.,	-	_	65	23
*Nickel Plate Line, Rochester, N. Y.,	-	_	24	43
Parker, D. W., Kalamazoo, Mich.,	_	-	22	71
*Pittsburgh & Toledo Despatch, Allegheny, Pa.,	-	-	44	05
*National Despatch Line, St. Albans, Vt.,	_	-	85	30
Rend, W. P. & Co., Chicago, Ill.,	-	-	5	98
*Red Line, Buffalo, N. Y.,	-	_	450	82
Standard Oil Co., New York, N. Y.,		-	10	16
Swift, Refrigerator Trans. Co., Chicago, Ill.,	_	-	47	80
United States Trans. Co., Chicago, Ill.,	-	-	2	67
*Union Line, Pittsburg, Pa,	-	-	519	33
Walker, E. C., Detroit, Mich.,		-		87
West Michigan Equipment Co. and L. Line, Muskegon	Mich	.,	2,813	39
*White Line, Buffalo, N. Y.,	-	-	115	42

The West Michigan Equipment Co. & Lumber Line cars are operated by the C. & W. M. Ry. Co., under a lease.

Do not know whether lines of cars marked with an asterisk are owned by railroad companies or by private individuals.

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

## KILLED.

April 29. Unknown man, trespasser, Turnbulls, intoxicated; Company exonerated.

June 20. Philip McGuire, trespasser, on bridge, Benton Harbor, intoxicated.

July 9. George Stoneman, Indian trapper, Sweet's, lying on track; intoxicated.

Sept. 29. Chester L. Hilton, brakeman, White Cloud, coupling, stubbed his toe; company exonerated.

November 2. Edward J. Goose, trespasser, Lilley Junction, found upon track dead, thought to have committed suicide.

December 19. J. Carpenter, trespasser, Park City, running ahead of train. December 23. James Arthurs, farmer, trespasser, Stevensville, walking on track; Company exonerated.

## INJURED.

May 9. H. F. Burtch, William Franklin, Mrs. Jennie Tuttle, passengers, Grand Rapids, collision; carelessness of switchman.

May 19. John Fox, switchman, Muskegon, coupling; carelessness.

May 19. Lubbert Zanburg, farmer, Jenisonville, crossing track with team; carelessness.

June 22. John Sullivan, switchman, Muskegon, coupling; carelessness.

July 5. S. D. Marshall, trespasser, New Richmond, struck by train; carelessness.

July 8. Henry Fox, Indian trapper, Sweet's, struck by train; intoxicated. August 4. Richard Wren, conductor, Mears, walking in front of engine; purely accidental.

October 10. Isaac Vandenberg, trespasser, Muskegon, child, stealing ride. November 22. William Beckman, switchman, Muskegon, coupling; carelessness.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.			Injured.	ed.		
Salada di Moditagni.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions				3				
Coupling cars		1			8			
Derailments								
Falling from trains			<b>-</b>					
Frogs		 				; ;		
Getting on and off trains								
Highway crossings					· • • • • • • • • • • • • • • • • • • •	j		
Miscellaneous					1			
Overhead obstructions			<b></b>		·	· . <b></b>		
Prespassers on trains	!	i		1	·	:		
Prespassers on tracks			6			1		
Total			6	3	4	j		

## CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	ļ 	1
Conductors		ł	1
Engineers		 	 
Firemen		l 	 
Laborers	ı		•
Shopmen			
Yardmen		3	8
Not classified above			
Total			
1 Uuni		•	•

STATE OF MICHIGAN, COUNTY OF MUSKEGON, Ss.

Suicides.

John B. Mulliken, Vice President and General Manager, and U. B. Rogers, Auditor of the Chicago & West Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

J. B. MULLIKEN. U. B. ROGERS. 1

Subscribed and sworn to before me this 5th day of April, A. D. 1888.

THOMAS C. CLARKE,

Notary Public.

## ANNUAL REPORT

## OF THE

## LAKE SHORE & MICHIGAN SOUTHERN RAILWAY COMPANY.

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.

Vice President and Secretary, E. D. WORCESTER, New York.

Auditor, C. P. LELAND, Cleveland, Ohio.

Treasurer, E. D. WORCESTER, New York.

General Manager, JOHN NEWELL, Cleveland, Ohio.

General Superintendent, P. P. WRIGHT, Cleveland, Ohio.

Assistant General Manager, E. GALLUP, Cleveland, Ohio.

Division Superintendents:

T. J. CHARLESWORTH, Toledo, Ohio.

S. S. HAND, Detroit, Mich.

Attorney, GEO. C. GREENE, Cleveland, Ohio.

W. H. CANNIFF, Hillsdale, Mich.

T. F. WHITTELSEY, Kalamazoo, Mich. Chief Engineer, JOS. O. OSGOOD, Cleveland, Ohio. Superintendent of Telegraph, WM. KLINE, Toledo, Ohio. Local Treasurer, N. BARTLETT, Cleveland, Ohio. General Passenger Agent, A. J. SMITH, Cleveland, Ohio. General Freight Agent, J. T. R. McKAY, Cleveland, Ohio.

## DIRECTORS.

W. K. VANDERBILT, New York city.

Term expires May, 1888.
C. VANDERBILT, New York city.

Term expires May, 1890.

F. W. VANDERBILT, New York city. Term expires May, 1889. SAMUEL F. BARGER, New York city. Term expires May, 1888. JOHN E. BURRILL, New York city. Term expires May, 1889. DARIUS O. MILLS, New York city. Term expires, May, 1890. E. D. WORCESTER, New York city. Term expires May, 1889. WM. L. SCOTT, Erie, Pa. Term expires May, 1890. CHAS. M. REED, Erie, Pa. Term expires May, 1888. RASSELAS BROWN, Warren, Pa. Term expires May, 1890. - JOHN NEWELL, Cleveland, Ohio. Term expires May, 1889. JEPTHA H. WADE, Cleveland, Ohio. Term expires May, 1888. JOHN DEKOVEN, Chicago, Ill, Term expires May, 1889.

## STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—1846.				
Number of stockholders at date of last election,	-	-	-	3,788
Number of stockholders in Michigan at same date .	•	-	-	80
Amount of full paid stock held in Michigan at same date,	-	-	-	408
Date of annual meeting of stockholders,—First Wednesda	y in	May.		
Fiscal year of Company ends December 31.				
General offices of the Company are located at Cleveland,	Ohio	•		•

## GENERAL EXHIBIT.

					DEBIT.		· CREDIT.
Total income, .	-	-		-	-	-	\$18,710,963 15
Total expenses, including tax	es,	-	-	\$11,02	9,798		
Net income,	-	-		-	-	-	<b>\$7,681,164 98</b>
Interest on funded debt,	\$3,2	76,140	00				
Interest on guaranteed stock,	- •	53,350	00				
Rentals of six branch roads,	4	49,313	45				
				3,77	8,803	45	

					t) ebit.		CREDIT	
Balance applicable to dividend		-	_	-	_	-	<b>\$</b> 3,902,361	53
Dividends declared (4 per cent)	, sęm	i-annt	ıal,					
2 per cent each,	-	-	_	1,978	3,660	00		
Balance for the year,	-	-	_	-	-	-	1,923,701	53
Balance (profit and loss) last ye	ear,	-	-	-	-	-	8,033,770	98
Items not included in above, a	s foll	ows:						
Interest, dividends, etc.,	•	-	-	•	-	-	129,999	<b>52</b>
Balance forward to next year,	-	-	-	10,087	7,472	03		
				\$10,087	 7,472	03	\$10,087,472	03

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or are Par value of shares, No. of shares issued,		_ \$50,000,000 00
Amount paid in on common, Amount paid in on guaranteed,	\$49,466,5	500 00 500 00
Total amount paid in, as per bo		
Paid in per mile of road owned pany,—miles, 864.87,		312 16

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Amount Outstanding
L. S. & M. S. consolidated first mortgage, July 1, 1870	7 per cent.	July 1, 1900.	\$15,890,000 00
L. S. Railway dividend, April I, 1869	7 per cent.	April 1, 1899.	1,356,000 00
Cleveland, Painesville & Ashtabula third mortgage, Oct, 1, 1867	7 per cent.	Oct. 1, 1892.	920,000 00
Buffalo, & Erie mortgage, April 1, 1868	7 per cent.	April 1, 1898.	2,784,000 00
L. S. & M. S. consolidated 2d mortgage, Dec. 1, 1878	7 per cent.	Dec. 1, 1908	24,692,000 00
Total funded debt L. S. & M. S. R'y proper			\$45,442,000 00
Det. M. & T. first mortgage, August 1, 1876	7 per cent.	Aug. 1, 1906.	<b>\$924,000</b> 00
Kal. & White Pigeon, first mortgage, Sept. 1, 1869	7 per cent.	Jan. 1, 1890.	400,000 00
Total funded debt	<u></u>		\$46,766,000 00

## UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		
For equipmen		
For real estate		
For renewals.	 	
For current balances		\$1,927,474 8
Total unfunded debt		\$1,927,474 8

## RECAPITULATION.

Total funded debt, - Total unfunded debt,	- -	-	-	-	- -	-	-	\$46,766,000 1,927,474	
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$4</b> 8,693,474	38
Amount of debt liabilities	per n	ile of	road,	864	.87 m	iles,	-	56,301	50
Total amount of stock and Stock and debt per mile of			-	-	-	-	-	98,693,474 114,113	

## GENERAL BALANCE SHEET,-Dr.

Construction account,							<b>\$66,700,000</b>	00
Equipment account,	-	-	-	-	-		17,300,000	
Other investments (specifying	- -	١	-	-	•	-	11,000,000	v
Other investments (specifying	ra parine	γ.		41 001	200	^^		
Detroit, Monroe & Toled			-	<b>\$1,381</b>				
Kalamazoo & White Pigeo	n Railro	ad,	_	610,	,000	00		
Northern Central Michiga	n Railro	oad.	_	1,357	,000	00		
Jamestown & Franklin Re	ilroad,	-	-	2,206	,822	84		
Chicago & Canada Souther	n Railro	oad, st	ock					
and bonds,	_	-	-	729	970	00		
New York, Chicago and S	t. Louis	Railv	vay,					
first preferred stock,	_	_	_	2,503	,000	00		
New York, Chicago & St	. Louis	Raily	vay,					
stock,	_	_	-	5,944	.746	94		
Pittsburg & Lake Erie Railw	rav. atoc	sk. et	n	2,141				
Cleveland, Lorain & Wh				,	,			
stock,	OULLE		, and	759	,800	ΛΛ		
·	-	-	-	102	,000	vv		
Cash items:								
Stock and bonds of other	compan	ies,	-	1,993	,362	03		
Pacific Hotel Company (C			_	384	961	80		
(c		, -	-			_	20,005,374	79

Cash, Due from ag	- ents,	-	-		-	-	\$2,60- 93	4,482 6,236			10
Other assets:  Materials and Debit balanc General office p	e from	comp		and i	ndivid -	luals, -	27	1,594 6,605 3,652	63		
-	-	•								1,234,852	52
Total,	-	•	-	-	-	-	-	-	1	108,780,946	41
		GEN	NERA	L BA	LANCI	E SH	eet,-	-Cr.			
Capital stock, Funded debt:	-	-	-	-	-	-	-	-	-	<b>\$50,000,000</b>	00
Lake Shore &	t Mich	nigan i	South	ern R	Railwa	y, <b>\$</b> 4	L5 442	,000	00		
Detroit, Mon	roe &	Toled	o Rai	lroad	٠,	-	924	,000	00		
White Pigeon	n & K	alama	z00,	-	-	-	400	,000	00	40 800 000	^^
Unfunded debt Dividends un Five per ce	paid:	aran t <i>e</i>	ed sta	nek		,	\$26	,675	on no	46,766,000	
Two per ce	nt div	ridend	. No.	38.	-	-		,330			
Vouchers and	acco	ants,	_	-	-	_		,469			
Profit and los	38,	-	_	-	-	-		-	-	1,927,474 10,087,472	
Total,	-	-	-	-	-	-	-	-		108,780,946	41
	-	COST	of R	OAD .	AND I	E <b>Q</b> UII	PMEN	T.			
Total Cost for Co	nstruci	ion an	d Equ	ipmer	t of R	oad a	nd Bro	anche	8 <i>B</i> 1	uilt by Compa	ny.
Total expended Average cost p								nos).		\$84,000,000	00
864 87 miles,			-	. (20	- 11101		- b.a.	-69/1	,	90,032	44
Proportion of c		r Mich	igan,		-	-	-	-	_	21,047,902	

# ANALYSIS OF EARNINGS.

# PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	. Mails.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	£2,068,626 71	\$2,088,626 71 \$1,200,235 26	\$4,292,861 96	\$440,509 22	\$740,077 09	\$740,077 09 \$5,473,438 27	\$896,549 19		\$5,708 45
	116,890 14		115,380 14	8,839 45	10,700 80	134,929 39	118,290 57		2,163 72
Detroit, Hillsdale & Southwestern	16,996 09		16,996 09	1,879 60	8,294 04	21,669 73	21,669 73		96 age
Ft. Wayne & Jackson	81,214 58		81,214 58	4,889 20	6,898 12	92,451 90	78 100'87		89 976
Northern Central Michigan	48,887 61		43,387 61	1,502 81	8,814.96	48,106 38	48,106 38		786 81
Kalamaroo & White Pigeon	38,811 87		86,811 87	8,276 00	4.426 50	46,514 55	46,514 55		1,271 93
Kalamazoo, Allegan, & Grand Rapids	62,001 84		<b>18</b> 100'39	5,184 91	6,988 21	74,074 46	74,074 46		1,267 96
Total passenger earnings	\$5,441,418 35	\$2,441,418 36 \$1,209,235 26	\$4,650,653 59	\$464,961 28	<b>\$775,548</b> 81	\$5,891,188 68	\$5,891,188 68 \$1,247,295 52	\$1 74.7	\$4,886 43

ANALYSIS OF EARNINGS.—Continued.

## PREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches  Leased or Proprietary Roads.	\$5,538,623 01	ga,296,186 47	\$11,819,811 48	\$11,819,811 48	<b>\$2,</b> 473,256 59		\$12,387 33
Detroit, Monroe and Toledo Railroad	392,606 32		38,608 38	362,608 32	344, 1983 333		6,478 75
Detroit, Hillsdale and Southwestern	16,973 00		16,973 00	16,978 00	16,973 00		28 OSC
Ft. Wayne & Jackson	:22,430 09		123,480 09	122,430 09	56,706 94		1,250 71
Northern Central Michigan	60,215 38		60,215 38	80,215 38	60,215 38		88 <b>198</b>
Kalamazoo & White Pigeon	57,071 69		57,071 69	57,071 69	57,071 69		1,560 61
Kalamazoo, Allegan & Grand Rapids.	78,818 29		78,818 20	78,813 20	78,813 29		1,849 08
Total freight earnings.	80,261,784 78	\$8,296,186 47	\$12,547,928 25	\$12,547,923 26	\$3,068,208 80	<b>8</b> 8	80 396 08

• •						131011 102				
Total transport Transportation				road	<u>,                                    </u>	-	-	-	<b>\$18,439,106</b>	93
miles, 1,34	11.38,	-	-	-	_	\$18	3,746	37		
Transportation				ile,	_		<b>1</b>			
Miscellaneous r other than f	eceipts fro	m ope	ratin	g acco						
From rentals					ο.	200	,877	QQ		
From other so		i bollin	111410		-		,978			
TIOM Other so		-	•	.=	-		.,010			
Total,		•	-	-	-	-	-	-	271,856	22
Total earn	ings from	operat	ion o	f road	i,	-	-	-	\$18,710,963	15
Total earnings	per mile o	of road		_	_	\$13	<b>3,94</b> 9	04		
Total earnings				-	-	•		85		
Earnings for M	lichigan :									
L. S. & M. S	S. Ry.,	_	-	-	_	<b>\$3,</b> 369	,805	78		
Det., Mon. &	Tol	-		_	_	462	.483	76		
Det., Hillsda	le & South	wester	n.	_	_	38	.642	73		
Ft. Wayne &				_	_	97	,642 ,831	38		
Northern Ce	ntral Mich	nigan.	_	_	_	108	,320	76		
Kalamazoo 8	White Pi	geon.	_	_	_		,586			
Kalamazoo,	Allegan &	Grand	l Rap	oids,	-		,887			
Total,		_	-	-	-	<b>\$4,333</b>	,558	40		
Proportion of Total taxable	taxable ear	nings	for M	fichig road	an, in	963	,752	62		
Michigan,						2	,695	06		
Interest, divid	ends, etc.,	-	-	-	-	- ~	-	-	129,999	52
Total inco	me from a	ll sour	ces,	-	-		-	-	<b>\$</b> 18,840,962	67
Proportion of	:	Michi							4,333,558	40

## ANALYSIS OF EXPENSES.

## CLASS 1.—Maintenance of Way and Buildings.

Repairs of roadway	and	track.			_	_		_	\$1,050,461	46
Renewals of rails,	-	-	-	-	-	-	-	-	204,293	61
Renewals of ties,		<b></b> -						-	283,202	
Repairs of bridges,	incl	uding co	ulver	ts and	d catt	de gua	ids,	-	164,304	
Repairs of fences, re Repairs of building	B DSPCT (	crossing	8, <b>8</b> .11	o Bigi	8,	-	-	-	83,824 292,998	
Hebane or panding	·, -	-	-	•	•	-	-	•		_
Total, -	-	-	-	-	-	-	-	_	\$2,079,084	61

Repairs of locomotives,	-	_	_	_	_	_	_	<b>\$</b> 798,625	57
Repairs of passenger cars,	_	_	_	_	_	_	_	195,358	
Repairs of freight cars,		_	_					1,001,028	
response of freight outs,	-	-	-	•	-	•	-	1,001,000	
Total,	-	-	-	-	-	-	-	<b>\$</b> 1,995,012	71
CLASS 8	3.— <i>C</i> a	mduc	ting T	ran <b>s</b> po	ortat <b>i</b> o	n.			
Fuel for locomotives, .	_	_	_	_	_	_		<b>\$736,274</b>	84
Water supply,	_	_	_	_	_	_	_	51,921	
Oil and waste,	_		_	_	_	_	_	77,556	
Locomotive service,	•	•	-	-	-	-	_	1,026,943	
Passenger train service,	•	•	-	-	•	-	-	261,830	
Passenger train supplies,	-	-	-	-	-	-	-	23,075	
		•	-	-	-	-	-	39,640	
Mileage of passenger cars,	1	-	-	-	-	-	-	,	
Freight train service,	-	-	-	-	-	-	-	509,820	
Freight train supplies,	-	•	•	-	-	-	-	15,185	
Mileage of freight cars,	. <b>-</b>	-				•	-	460,864	
Telegraph expenses (main	tenan	ICB 8.1	ad ope	ratin	g),	-	-	293,140	
Damage and loss of freigh			gage,	-	-	-	-	34,919	
Damages to property and	cattle	θ,	-	-	_	_	-	29,813	
Personal injuries,	-	_	-	-	-	_	-	38,186	39
Agents and station service,		_	_	-	_	_	_	1,981,318	48
Station supplies,	_	_	_	_	_	_	_	62,859	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s									
Total,	-	-	-	-	-	-	-	<b>\$5,643,350</b>	55
	CLASS	4	Genera	l Exp	ense <b>s</b> .		•		
Salaries of the general offic	cers o	of th	e com	panv.		_	_	\$121,600	00
Salaries of clerks in genera	al offi	CAR		FJ,	-	_	_	220,110	
Law expenses,	<b>41</b> VIII	.000,	-	-	•	-	-	47,756	
Stationery and printing,	-	-	-	-	-	-	-	92,606	
Outside agencies and adve	_ 	-	-	-	-	-	-	204,644	72
Ourside agendies and adve	LURII	18,	.1. /A/	- W 900	- 08)	-	-		
Contingencies, including re	eura ]	payai	Σ1Θ ( <b>Φ</b> β	77,700	.07],	-	-	149,354	
Taxes,	-	-	-	-	-	-	-	476,256	ÖÖ
Total,	-	-	•	-	-	-	-	<b>\$1,312,</b> 350	<del>3</del> 0

## RECAPITULATION OF EXPENSES.

			Per cent of Expenses.	
Maintenance of way and buildings,	_	_	18.85	\$2,079,084 61
Maintenance of motive power and cars,	-	_	18.09	1,995,012 71
Conducting transportation,	-	-	51.16	5,643,350 55
General expenses, including taxes,	-	-	11.90	1,312,350 30
Total operating expenses and taxes,	-	-	100.00	\$11,029,798 17

1001.]	LAKE SIL	OILE C	c mic.	ши	111 150	OIHI	MIL WAILW	AI
Operating road,—1,	341.38 mi xpenses a	les, nd tax	- es per	trair	- n <b>m</b> ile	- run,	<b>\$8,222</b>	72
for train miles, Proportion	of operat	٠.	-	-		-	1	09
Michigan Main line,	-	-	-	-	-	-	1,985,363	67
	-	1	Leased	or Pr	opriet	a <b>ry</b> R	oads.	
				_				

1897 1

Detroit, Monroe & Toledo Railroad,	<b>\$259</b> ,902 27
Detroit, Hillsdale & Southwestern Railroad,	47,557 12
Ft. Wayne & Jackson Railroad,	71,797 14
Northern Central Michigan Railroad,	58,795 91
Kalamazoo & White Pigeon Railroad,	52,278 19
Kal., Allegan & Grand Rapids Railroad,	82,718 37
Total proportion of expenses for Michigan	gan, \$2,558,412 67
Percentage of expenses to earnings, 5	8.95

Net earnings per mile of road,

Net earnings per train mile,

## DESCRIPTION OF ROAD.

\$5,726 32

0 76

Date when the road was opened for use between its present termini:
From Monroe to Adrian, November 23, 1840.
From Adrian to Hudson, May 27, 1843.
From Hudson to Hillsdale, September 25, 1843.
From Hillsdale to Jonesville, September, 1850.
From Jonesville to Coldwater, December, 1850.
From Coldwater to Sturgis, March, 1851.
From Sturgis to White Pigeon, July, 1851.
From White Pigeon to South Bend, Ind., October 4, 1851.
From Tecumseh to Manchester, October 4, 1855.
From Manchester to Jackson, July, 1857.

MAIN LINE.	Miles, 100ths. Miles, 100ths.
In Michigan:	
From State Line of Ohio and Michigan to State Line	
of Michigan and Indiana,	115 95
In New York:	
From Buffalo to State Line of New York and Penn-	
sylvania,	<b>69 50</b>
In Pennsylvania:	
From State Line New York and Pennsylvania to	
State Lines Pennsylvania and Ohio,	<b>44</b> 06

MICHIGAN RAILRUAD RETURNS.		[Dec. 81.
In Ohio:	Miles,100th	bs. Miles. 100ths,
From State Line Pennsylvania and Ohio to State		
Lines Ohio and Michigan,	195 0	1
In Indiana:	190 0	L
From State Line Michigan and Indiana to State Lines		
Indiana and Illinois,	101 98	ξ.
In Illinois:	101 86	,
From State Line Indiana and Illinois to Chicago,	14 02	).
Trom State Indiana and Inness to Onicago, .		<b>,</b> -
Total length completed,		. 540 49
Length of double track on main line:		
On Main Line.	249 13	3
On branches,	17 1	l
•		- 266 24
BRANCHES.		
Sandusky, from Elyria Junction to Millbury Junc-		
tion, via Sandusky,	72 98	5
Sundusky Pier, from Sandusky to old depot, Sandusky,	3 72	
Air Line, from Air Line Junction to Elkhart,	130 83	
Jackson, from Lenawee Junction to Jackson,	41 98	3
Monroe, from Lenawee Junction to Monroe,	29 37	γ.
Ashtabula Harbor, from Ashtabula Harbor to cross-		
ing of Main Line,	2 3	3
Ashtabula, from Ashtabula to Jamestown,	35 98	3
Dunkirk, from Junction with D. A. V. & P. R. R., at		
Dunkirk,	1 50	)
Detroit, from Air Line Junction to Detroit,	62 36	
Kalamazoo, from White Pigeon to Kalamazoo,	36 57	
Lansing, from Jonesville to North Lansing,	61 14	Į.
Motel levels of branches armed by Games		- 4 NO NO
Total length of branches owned by Company,		478 73
Total length of branches owned by Company in Mich-		_
gan,	223 73	
Total length of road belonging to this Company,		. 1,019 22
Total length of road belonging to this Company in		_
Michigan,	339 68	5 '
Aggregate length in Michigan of sidings, spurs and other	a= -	
tracks not above enumerated,	67 24	ł
Aggregate length of tracks in Michigan belonging to	400.0	
this Company, computed as single track,	406 99	e e
Gauge of track, 4 feet 8½ inches.		

## 1887.]

## Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:	Total Mi	les. Ir	Michi	gan.
Kalamazoo, Allegan & Grand Rapids, from Kalama- zoo to Grand Rapids,	58	43	58	42
Detroit, Hillsdale & Southwestern from Ypsilanti to Banker's,		20	65	20
Fort Wayne & Jackson, from Fort Wayne to Jackson, Jamestown and Franklin, from Jamestown to Oil		83	44	54
City,	50	91		
Mahoning Coal, from Andover to Youngstown, including 3 coal branches,	42	06		
Mahoning & Shenango Valley, from Doughton Junction to State Line Ohio and Pennsylvania,  Shenango Valley from State Line Ohio and Penn	5	97		
Shenango Valley, from State Line Ohio and Pennsylvania to north line of Sharon,		77		
Total,	322	16	168	16
Total miles operated by the Company,	1,341	38	507	8 <b>4</b>
Number of Bridges and Trestles in Michig	jan.			
Wooden bridges, number of, 30; aggregate length, Stone bridges, number of, None; aggregate length			•	943
Iron bridges, number of, . 3; aggregate length	feet,			222
Combination bridges, number of, 1; aggregate length 57; aggregate length	, feet, , feet,			305 345
Total, 91;			13,	815
Draw Bridges in Michigan.				
How many on your line? Where located, when built, and length of draw span: At Grand Rapids. Built in 1880. Length, 179 feet.	-			1
Character of structure: Howe truss. Material of which constructed:				
Wood and iron.  Height above water, and depth of water under bridge:  From 2 feet to 24 feet.				
How swung, by engine or hand power? Hand power.				
Approaches, straight or curved? Straight.				
Do you require all trains to come to full stop before creare they signaled? Yes. Target.	ossing di	aw,	and h	10 <b>W</b>

## Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Detroit, Butler & St. Louis R. R., at Adrian and Raisin Center. Michigan Central R. R., near Jackson. Toledo, Ann Arbor & North Michigan R. R., near Petersburg. Chicago & Canada Southern R. R., at Deerfield & Grosvenor. Detroit, Hillsdale & Southwestern R. R., at Manchester. Michigan & Ohio R. R., at Tecumseh. Grand Rapids & Indiana R. R., at Sturgis. Chicago & Canada Southern R. R., at Chandler and Trenton. Michigan Central R. R., at Grand Trunk Junction. Detroit, Butler & St. Louis R. R., south of Grand Trunk Junction. Detroit & Bay City R. R., north of Grand Trunk Junction. Toledo, Ann Arbor & North Michigan R. R., at Pittsfield. Michigan & Ohio R. R., near Jerome. Michigan Central (Air Line) R. R., at Jackson. Fort Wayne & Jackson R. R., at Jonesville. Michigan & Ohio R. R., at Hanover. Chicago & Grand Trunk R. R., at Lansing. Grand River Valley R. R., at Eaton Rapids. Michigan Central R. R., at Homer and Albion. Michigan & Ohio R. R., at Homer. Michigan Central R. R., at Kalamazoo. Grand Rapids & Indiana R. R., at Plainwell and Grand Rapids. Michigan & Ohio R. R., at Allegan. Chicago & West Michigan R. R., at Grandville. Michigan Central R. R., at Three Rivers. Chicago & Grand Trunk R. R., at Schoolcraft. Grand Rapids & Indiana R. R., at Kalamazoo. What railroads cross your road either over or under your grade in this State, and where? Under grade: Cincinnati, Jackson & Mackinaw R. R., at Hudson. At what crossings are interlocking and derailing switches in operation? What pattern or patterns have you adopted? Union Switch Signal Co., put in by Michigan Central R. R. Co. 747 Number of crossings of highways at grade in this State, Number of crossings of highways at grade in this State at 29 which there are gates or flagmen, Number of crossings at which there are electric or automatic None. signals, \_ Number of crossings of highways over or under railroad (over, 6; under, 6), \_ 12 Number of highway bridges, 18 feet above track, Number of highway bridges, less than 18 feet above track, None. Have safety guards been erected at over-head obstructions? Yes. Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 1883? Yes. How are they treated?

Cinder blocking and examined weekly.

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Amount of trestle work replaced with earth during the year

(linear feet), \_ \_ \_ \_ \_

None.

Timber culverts replaced during the year,	_	-	39
With timber,—number,	_	-	39
New bridges built during the year-number in Mich	igan :		

Location.	Kind.	Material.	Month Built.	Feet in Length.
Manchester	Howe truss	Wood	March	88
Manchester	Howe truss	Wood	March	88
Howell	Howe truss	Wood	March	88

## ROLLING STOCK.

N	umber.	Present Estimated Value.
Number of locomotives of more than 30 tons weight,	440	
exclusive of tender,	<b>47</b> 8	
Number of locomotives of 20 to 30 tons weight,	484	
exclusive of tender,	47	
Total,	525	<b>\$1,875,000 00</b>
Number of passenger cars—12-wheel, including		
official cars,	24	
Number of passenger cars—8-wheel, including		
official cars.	159	
Number of express and baggage cars,	74	
	0,894	
Number of stock cars,	1,589	
Number of platform cars,	1,514	
Number of ore cars,	3,155	
Number of conductors' way cars,	265	
Other cars as follows:		
Combination passenger and baggage pay cars,		
etc.,	254	
Total :	17 090	\$2,748,725 00
Total,	11,320	ΦA, 140, 1AU UU
Number of locomotives equipped with power brakes,	466	
Number of passenger-train cars equipped with		
power brakes,	All.	
	None.	
What patterns of power brakes have you in use, and		
number of locomotives and cars with each?		
Westinghouse.		
Steam driver brake.		
Are your freight cars equipped with automatic couple	ers as	
required by Act No. 147, Session Laws of 1885?	_	Yes.
What pattern or patterns have you adopted for use?		
Ames.		

## MILEAGE, TRAFFIC, ETC.

## TRAIN MILEAGE.

ı							
Miles run by passenger trains during Miles run by freight trains during			-	-	-		,371,318 ,742,811
Total mileage of trains earnin	g revenue	,	-	-	-	10	,114,129
Pa	ssenger Tra	ıffic.	•				
		_	Numi nd Quar	ers	Mi	les.	Rate.
Number of through passengers ca	rried	•	108,				
Number of local passengers carrie	d,	- - {	3,64 <b>4</b> ,'				
Total number of passengers of	earried, .	. 8	3,752,	840			
Total passenger mileage, or passen	gers carrie	d o	ne mil	e, 205	.761	459	
Average distance traveled by each	nassenger		_	_	,,	55	
Average amount received from each			-	_	_		1 24.
Average rate of fare per mile for			- Angare		•	- •	02.072
Average rate of fare per mile for	lecel perg	aon ~~~	omBore	, -	-	-	02.335
Average rate of fare wer mile for	10car passe	nR.	ers,	-	-	-	
Average rate of fare per mile for	eur bassen?	зөп	3, -	-	-	-	02.260
Fr	reight Traffi	lc.					
Number of tons of through freigh	nt carried.		1,221,	705			
Number of tons of local freight c	arried, _		8,105,	147			
Total tons of freight carried,	,		9,326,	852			
Total mileage of through freight,				549	,021,	ana	
Total mileage of local freight,	-	-	-		),763,		
Total mileage of local freight,		-	-	1,500	, 100,	901	
Total freight mileage, or tons	carried or	ne :	mile,	1,84	3,785,	896	
Average ton haul for through fre	ight.				444	.50	
Average ton haul for local freight	-B	-	•	-	160		
Average ton haul for all freight,	, -	-	-	-	197		
Average on nam for all freight,		-	-	-	191		1 20 40
Average amount received for each	ton naui,				-	- •	1 32.46
Average rate per ton per mile, rece	oved for the	iro	ugh f	reight	- وا	-	0.605
Average rate per ton per mile, rece	eived for le	008	l freig	ht,	-	-	0.697
Average rate per ton per mile, rec	eived for	all	freigh	t,	-	-	0.670
Freight Forwar	ded at Mic	hige	an Sta	tions.		3	Forwarded, Tons.
Omain							
Grain,	• •	-	-	-	-	-	89,741
Flour,	· -	-	-	-	•	-	74,151
Provisions (beef, pork, lard, etc.) 40	, -	-	-	-	-	-	13,835

914	MICH	IJUAI	IAN K	LKUA	א ע	TURN	Э.		[Dec. 51.
					•				Forwarded, Tons.
Animals,	_	_	_	_	•	-			26,019
Other agricultural p	roducts	3,		_	_	_			45,747
Lumber and forest p			_	_	_	_	_		402,511
Coal,	_	_		-	_	-	-		3,665
Plaster, lime and cer	ment,	_	-	_	_	-			26,663
Salt,			_	_	_	_	_		15,952
Petroleum, -	_		_	-		_	_		4,230
Pig and bloom iron,	_	_	_	-	_	-	_	. <b>-</b>	19,226
Other iron and casti	ngs,	_	_	-	_	-	_		35,014
Stone, brick and sar		_	_	_	_	-	_		44,478
Manufactures,		_	_	_	_	_			78,713
Merchandise and oth		cles 1	ot en	umer	ated	above,			102,855
									<u> </u>
Total forwarded	l, .	-	-	-	-	-	-		982,800
Tone	rage of	Amti	leo T	bear one	mt ad	_ For time	10.	oad	
10101	aye oj	Aire	ACO 1	<i>i</i> witopt	n ceu-	-1316661 6	10	Tons.	Per Cent.
Grain,								953,985	10.23
Flour,	-	-	-	-	-	-	-	318,231	3.41
Provisions (beef, por	k lard	- etc	1		-	-	-	310,957	3.33
Animals,	a, iaiu	, 000	, , ,	-	-	-	-	442,473	4.74
Other agricultural p	- rodnote	-	-	-	-	-	-	291,707	3.13
Lumber and forest p	roducte	') '	-	-	-	-	-	898,823	9.63
Coal.	IOGUCUS	,	-	-	-	•	-	1,769,320	18.97
Plaster, lime and ce	- mant	-	•	-	-	-	-	112,928	1.21
Salt,	-		-	-	-	-	•	47,272	.50
Petroleum,	-	-	-	-	-	-	-	395,951	4.24
Railroad iron, iron a	nd ates	al rai	- lo	-	-	•	-	88,236	.94
Pig and bloom iron,		1 101	-	-	-	-	-	167,473	1.79
Other iron and casti		-	-	-	-	-	-	569,492	6.16
Ores,	ngo,	-	-	-	-	-	-	443,540	4.75
Stone, brick and sar	ā	-	-	-	-	•	-	583,593	6.25
Manufactures,—artic		- nnod	from	- noin	- 04	nrod:	-	000,000	0.20
tion,	01 <b>08</b> 8111	hhea	TLOIII	Ротп	n OI	produ	<b>U</b> -	372,472	3.99
Merchandise and oth	or orti	olog v	-	- m.c=	o tod	ahore	-	1,560,399	16.73
TATALCHISH OF SHIT OF	rot set fl	CIOS I	TOP GI	ıumer	aleu	auuve,	-	1,000,000	10.10
Total tons carri	ed,	-	-	-	-	-	-	9,326,852	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company, pays from 15 cents to 50 cents per 100 lbs. between Buffalo and Cleveland.

United States Express Company, pays from 20 cents to 85 cents per 100 lbs. between Buffalo and Chicago.

These companies do a general express business and deliver freight to us at our depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Total miles of wire, whole road, \_\_\_\_\_\_ 10,962

Western Union Telegraph Company owns in Michigan. 2.101

Western Union Telegraph Company owns in Michigan, 2,101
Lake Shore & Michigan Southern Railway in Michigan, 181

## TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York City.

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

## KILLED.

April 30. Maria Maloney, wife of section foreman, Burr Oak, wandered out of house in the night and onto track, was struck by train and killed.

June 9. Chas. Rumpf, not an employé, 1½ miles east of Ottawa Lake, asleep on track, run over by train and killed.

July 11. Wm. Carl, conductor of gravel train, Hillsdale gravel pit, fell from top of car under train, instantly killed.

August 4. Lucinda Stowell, not an employé, Raisin, deliberately jumped in front of train, suicide.

September 8. John Johnson, not an employé, Eldred, breaking a colt, colt frightened by train, Johnson thrown from cart and killed.

## INJURED.

January 28. Jay Moulton, brakeman, Lansing, coupling, breast and collar bone broken.

February 2. Wm. Fraquer, brakeman, Monroe, coupling, left arm crushed and amputated above elbow.

February 15. Eugene O. Sanders, brakeman, Jonesville, coupling, finger crushed and amputated.

March 18. Edward Masters, brakeman, Lenawee Junction, coupling, finger amputated.

May 31. Harrison Calkins, station and targetman, Lenawee Junction, coupling, right arm bruised and bone splintered.

June 9. Wm. Fisher, employé, near Ottawa Lake, asleep on track, struck by train, knee cap and seven ribs broken.

July 9. Frank McGuire, not an employé, Adrian, attempted to board mov-

ing train, leg broken.

August 18. S. W. Custer, passenger, between Sturgis and Burr Oak, supposed to have walked off train while asleep, collar bone broken.

September 1. Benj. F. Overmyer, brakeman, Lenawee Junction, coupling,

lost first right finger.

September 13. W. L. Dunn, switchman, Eagle Mills, coupling, thumb broken.

September 20. Alfred Naylor, not an employé, Adrian, attempted to board moving train, right leg cut off below knee.

September 28. Ford. J. Stout, freight conductor, Tecumseh, knocked off

side of car by telegraph pole, rib and eye injured.

October 8. Thos. E. Glennan, yard brakeman, Detroit, coupling, one finger lost, thumb badly lacerated.

October 11. Chas. O. Berkley, yardmaster, Detroit, coupling, rib fractured. October 18. Wm. K. Lowe, brakeman, Ida, coupling, first left finger taken off.

December 2. Joseph Guss, not an employé, Detroit, climbing between cars, compound fracture of right leg.

December 7. Edward Brown, not an employé, Schoolcraft, jumped from

moving train, left ankle badly sprained and cap of ankle broken.

December 7. Hiram Swartz, brakeman, Lenawee Junction, coupling, collar bone and two ribs fractured.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accidents.		Killed.		Injured.				
Causes of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions								
Coupling cars					11			
Derailments								
Falling from trains		1			1			
Frogs					 			
Getting on and off trains								
Highway crossings								
Miscellaneous			2					
Overhead obstructions								
Trespassers on trains								
Trespassers on tracks	1		2		<u> </u>			
Total		1	. 4	\	12			

1887.]	LAKE SHORE & MICHIGAN SOUT	HER	N RAI	LWAY	7 CO.	317
	SUMMARY OF ACCIDENTS	IN M	ICHIG	AN.		
	4				•	
Number	of persons killed during the year,	-	-	-	_	5
Number	of persons injured during the year,	_	_	_	_	18
Number	of casualties purely accidental,					5
	resulting from lack of caution, carel	essne	- 988, Q	r misc	on-	
duct.		_	_	_	_	13
Persons l	cilled or injured while intoxicated,					3
	ers and tramps killed or injured,	-	-	-	•	1
Spicides.		-	-	-	-	1
Spicides.				_		

## CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		8	8
Conductors	1	1	8
Engineers			
Firemen		 	
Laborers			
Shopmen			
Yardmen		8	3
Not classified above			
Total	1	12	18

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

John Newell, President, and C. P. Leland, Auditor, of the Lake Shore & Michigan Southern Railway Co., being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL. C. P. LELAND,

Subscribed and sworn to before me this 5th day of April, A. D. 1888.
[L. s.]
L. ROOD LOOMIS,
Notary Public.

## ANNUAL REPORT

OF THE

## DETROIT, HILLSDALE & SOUTHWESTERN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ELIJAH SMITH, Boston, Mass.

Secretary and Treasurer, PROSPER W. SMITH, Boston, Mass.

Transfer Agent, FARMERS' LOAN AND TRUST CO., New York city.

## DIRECTORS.

ELIJAH SMITH, Boston, Mass.

WM. ENDICOTT, JR., Boston, Mass.

HENRY ENDICOTT, Boston, Mass.

CALEB W. LORING, Boston, Mass.

EDWARD L. GIDDINGS, Boston, Mass.

PROSPER W. SMITH, Boston, Mich.

JAMES W. POTTER, Boston, Mass.

JAMES P. COOK, Salem, Mass.

S. W. COLTON, JR., Philadelphia, Pa.

Term expires January, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Jan	uar	y 30,	1875.	,		
Number of stockholders at date of last election,		-	-	-	-	254
Number of stockholders in Michigan at same date.						Ω



## REMARKS.

The property of this corporation is controlled and operated by the Lake Shore & Michigan Southern Railroad Company, under lease executed September 5, 1881; three per cent guaranteed until July 1, 1883, and four per cent thereafter. The traffic statements and details of operation are included in the report of the lessee corporation.—Com, of Railroads.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$3,350,000 00</b>
Average price received per share, 100 00 Amount paid in on common, 2 2 \$1,344,000 00	
Total amount paid in as per books of the Company,	
Paid in per mile of road owned by Company, —miles, 65.20, \$20,740 00	

## ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

None. .

## RECAPITULATION.

Amount of debt liabilities per mile of road [65.20 miles],

Total amount of stock and debt,	_	-	-	-	_	<b>\$1,344,000 00</b>
Stock and debt per mile of road,	-	-	_	_	-	20,740 75

# COST OF ROAD AND EQUIPMENT.

Total expended for construction and equipment,	<b>\$</b> 1,287,648 59		
Average cost of construction per mile of road (not in	ling		
sidings),—65.20 miles,	-		19,871 18
Proportion of cost of construction for Michigan,	-	-	1,287,648 59

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: November, 1872.

#### MAIN LINE.

Length completed in Michigan, _	-	-	-	-	65	20	
Total length completed,	· <b>-</b>	-	-	<i>:</i>	-	_	65 20
Total length of road belonging to this Total length of road belonging to Michigan,	Com this	pany, Comp	any -	in -	- 65	- 20	65 20
Aggregate length of sidings, spurs, not above enumerated, Same in Michigan, Aggregate length of tracks belonging	-	-		-	- 4	22	4 22
computed as single track, Same in Michigan, Gauge of track, 4 feet 81 inches.	- -	-	- -	- -	69	42	69 42

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

John Newell, President, and C. P. Leland, Auditor, of the Lake Shore & Michigan Southern Railway Company, "Lessee" Detroit, Hillsdale & Southwestern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirtyfirst day of December, A. D. 1887, to the best of their knowledge and belief.

JOHN NEWELL, President. [L. S. OF R. R.] Signed, C. P. LELAND, Auditor.

Subscribed and sworn to before me this 5th day of April, A. D. 1888. L. ROOD LOOMIS, [L. S.] Notary Public.

# ANNUAL REPORT

#### OF THE

# DETROIT, MONROE & TOLEDO RAILROAD COMPANY,

For the Year ending December 31, 1887.

[ Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio. Secretary and Treasurer, C. P. LELAND, Cleveland, Ohio.

## DIRECTORS.

C. VANDERBILT, New York city.

W. K. VANDERBILT, New York city.

JOHN NEWELL, Cleveland, Ohio.

E. D. WORCESTER, New York city.

G. H. WORCESTER, New York city.

EDWARD GALLUP, Cleveland, Ohio.

ASHLEY POND, Detroit, Mich.

GEO. C. GREENE, Cleveland, Ohio.

P. P. WRIGHT, Cleveland, Ohio.

ADDISON HILLS, Cleveland, Ohio.

C. P. LELAND, Cleveland, Ohio.

Terms expire when successors are elected.

STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Date of annual meeting of stockholders,—Fourth Tuesday in April. Fiscal year of Company ends December 31.

General offices of the Company are located at Cleveland, Ohio.

# REMARKS.

Entire capital stock, except one share, owned by L. S. & M. S. Ry. Co., by which Company the road is operated. All details of operation, traffic and statistics are included in the report of the lessee corporation.—Com. of Railroads.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$414,100 00</b>
No. of shares issued, 4,141 Amount paid in on common, \$414,100 00	
Total amount paid in, as per books of the Company,	414,100 00
Paid in per mile of road owned by Company,—62.36 miles, - \$6,640 47	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.	
*First mortgage	6 per cent	1906.		\$984,000 00	
Total funded debt					

<sup>\*</sup>Included also in debt statement of the Lake Shore & Michigan Southern Ry. Co.

# UNFUNDED DEBT.

No unfunded debt.



# RECAPITULATION.

Total funded debt,	-	-	-	-	-	-	\$924,000	00
Total debt liabilities,	-	<del>-</del> ,	-		-	-	\$924,000	00
Amount of debt liabilities per Total amount of stock and de Stock and debt per mile of roo	bt,	road - -	[62.3 - -	6 mile - -	98], -	- -	14,832 1,338,100 21,472	00
Interest on the Funded Debt.								
What is the amount of same of Was it paid for the last year,	due eacl	n year -	, -	-	-	-	\$64,680 Y	00 es.
COST OF	ROAD	AND :	EQUI	PMEN	Т.			
Total Cost for Construction and I	Equipme	nt of 1	Road o	ınd Br	anches	Bu	ilt by Compar	ıy.
Total expended for construct Average cost of construction		le of	- road	- (not	- inclu		<b>\$1,381,600</b>	00
ing sidings),—62.36 miles, Proportion of cost of construction	· .	-	-	_`	-	-	22,155 1,196,381	

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Toledo to Detroit, December 25, 1857.

	MAIN	LIN	E.						
Length completed in Michigan, Length completed in Ohio,	-	- -	-	-	-		67 69	lies. 100	ths.
Total length completed,	-	-	-	-	-	-	_	62	36
Total length of road belonging to Total length of road belonging to				- Mich	- 1i-			62	36
gan, Aggregate length of sidings, spu	- 1 <b>78. 2</b> 11	d oth	er tra	cks n	- ot	54	67		
above enumerated, Same in Michigan,	-	-	-	-	-	16	64	19	76
Aggregate length of tracks belo	nging	to tl	is Co	- mpan	у,	10		00	10
computed as single track, Same in Michigan, - Gauge of track 4 feet 8½ inches.	-	_`	-	-	-	71	31	82	12

STATE OF OHIO. COUNTY OF CUYAHOGA, Ss.

John Newell, President, and C. P. Leland, Auditor, of the L. S. & M. S. Ry. Company, owner Detroit, Monroe & Toledo Railroad being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL, President. C. P. LELAND, Secretary.

Subscribed and sworn to before me this 5th day of April, A. D. 1888.

[L. S.]

L. ROOD LOOMIS,

Notary Public.

# ANNUAL REPORT.

OF THE

# FORT WAYNE & JACKSON RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SAMUEL SLOAN, New York. Secretary and Treasurer, R. G. ROLSTON, New York.

# DIRECTORS.

SAMUEL SLOAN, New York.

MOSES TAYLOR, New York.

WM. E. DODGE, New York.

WM. H. HAYES, New York.

PERCY R. PYNE, New York.

R. G. ROLSTON, New York.

JAMES F. JOY, Detroit, Mich.

AMOS ROOT, Jackson, Mich.

E. O. GROSVENOR, Jonesville, Mich.

Term expires when successors are elected.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—1880.				
Number of stockholders at date of last election,		-	-	194
Number of stockholders in Michigan at same date,	-	-	_	8
Amount of full paid stock held in Michigan at same date,	_		_	1,927 shares.

Date of annual meeting of stockholders,—April. Fiscal year of Company ends December 81. General offices of the Company are located at Cleveland, O.

#### REMARKS.

The property of this corporation was leased in perpetuity to the Lake Shore & Michigan Southern Railroad Company, August 24, 1882, by which Company it has since been operated. All details of traffic and other statistics are included with the report of the lessee.—Com. of Railroads.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	<b>\$3,000,000 00</b>
Par value of shares, 100 00	
Average price received per share, 100 00	
No. of shares issued, 27,195	
Amount paid in on common, \$431,747 44	
Amount paid in on preferred, 2,287,832 09	
Total amount paid in, as per books of the Company,	2,719,579 53
Paid in per mile of road owned by Company,—Miles, 97.83, \$27,799 03	
ANAT WORD OF DEPTH A COOLINING	

# ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

UNFUNDED DEBT.

None.

#### RECAPITULATION.

Total amount of stock and debt,	_	-	_	\$2,719,579 53
Stock and debt per mile of road,—97.83 miles,	-	-	-	27,799 03

# COST OF BOAD AND EQUIPMENT.

Total cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,	_	\$2,719,579	53
Average cost of construction per mile of road, not including	ng		
sidings,—97.83 miles,	-	27,799	03
Proportion of cost of construction for Michigan,	_	1,238,168	79

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 15, 1870.

#### MAIN LINE.

						Miles, 1	00ths.	Miles. 1	O0ths.
Length completed in Michigan, Length completed in Indiana,		-	-	-	-		54 29		
Total length completed,	-	-	-	-	•	-	-	97	83
Total length of road belonging	to th	is Con	npany	,	•	-	-	97	83
Total length of road belongin Michigan, Aggregate length of sidings, sp	-	-	-	•	_	44	54		
above enumerated,	-	-	-	-	-	- 5	00	13	27
Aggregate length of tracks belo computed as single track, Same in Michigan,	-	g to th - -	is Co - -	mpar - -	1 <b>y,</b> - -	49	- 54	111	10
Gauge of track, 4 feet 81 inch	108.								

STATE OF OHIO, COUNTY OF CUYAHOGA, SS.

John Newell, President, and C. P. Leland, Auditor, of the L. S. & M. S. R'y Company, Lessee Fort Wayne & Jackson Railroad, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JOHN NEWELL, President. C. P. LELAND, Auditor.

Subscribed and sworn to before me this 5th day of April, A. D. 1888.

[L. S.]

L. ROOD LOOMIS,

Notary Public.

# ANNUAL REPORT

#### OF THE

# KALAMAZOO, ALLEGAN & GRAND RAPIDS RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE, Cleveland, Ohio. Secretary, C. P. LELAND, Cleveland, Ohio. Treasurer, W. S. JONES, Cleveland, Ohio.

# DIRECTORS.

O. M. BARNES, Lansing, Mich. H. B. PAYNE, Cleveland, Ohio. J. H. Wade, Cleveland, Ohio. C. P. LELAND, Cleveland, Ohio. JOHN NEWELL, Cleveland, Ohio. GEO. F. ELY, Cleveland, Ohio. J. M. JONES, Cleveland, Ohio.

J. H. WADE, Jr., Cleveland, Ohio.

W. S. Jones, Cleveland, Ohio.

Term expires first Wednesday in May.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,-June	8, 1	8 <b>6</b> 8.				
Number of stockholders at date of last election, .	-	_	-	_	-	92
Number of stockholders in Michigan at same date,	-	-	-	-	-	14
Amount of full paid stock held in Michigan at same d	iate,	-	-	-	. \$206,600	00
42						

Date of annual meeting of stockholders,—First Wednesday in May. Fiscal year of Company ends December 31.

General offices of the Company are located at Cleveland, Ohio.

# REMARKS.

The Lake Shore & Michiga Southern Railway Company leases this property from the
owners for an annual rental of \$103,800, made up as follows:

Interest on bonds,	_	-	-	-	-	-	-	-	-	\$67,200 00
Dividends on stock,	_	_	-	-	_	_	-	-	_	86,600 👀

The taxes are paid by the lessees. Details of traffic and property statistics included in general report of the lessee company.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 No. of shares issued, 6,100	<b>\$</b> 610,000 00
Amount paid in on common, \$610,000 00	
Total amount paid in, as per books of the Company,	610,000 00
Paid in per mile of road owned by Company,—miles, 58.42,	10,441 00

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amouut Outstanding.
First mortgage	8 per cent	July 1, 1888		\$840,000 00
Total funded debt				\$840,000 00

# UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt,	-	-	-	-	-	\$840,000	00
Total debt liabilities,	-	-	-	-	-	\$840,000	00
Amount of debt liabilities per mil	le of ro	sd,—5	8.42 1	niles,	-	14,378	00
Total amount of stock and debt, Stock and debt per mile of road,	-	-	-	-	-	1,450,000 24,820	

# Interest on the Funded Debt.

What is the amount of same due each Was it paid for the last year?	year, -		-		67,200 Y	00 es.
COST OF ROAD A	ND EQUI	PMEN	T.			
Total Cost for Construction and Equipment	of Road, a	nd Br	anches	Built	by Compa	ny,
Total expended for construction, Average cost of construction per mile	of road (1	ot in	- cludir		1,450,000	00
sidings) 58.42 miles, Proportion of cost of construction for	`	-	-	-	24,820 1,450,000	

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: March 1, 1869.

MAIN	LINE.						
				Miles, 1	Oths. Mil	es. 10	Oths
Length completed in Michigan, .		-	-	58 4	12		
Total length completed,		-	-	-	-	58	42
Total length of road belonging to this Total length of road belonging to t	Compa his Co	any, mpany	in		-	58	42
Michigan, Aggregate length of sidings, spurs, and	other	tracks i	- not	58	42	10	94
above enumerated,Same in Michigan,	-	 ~ -		10	34	10	<b>04</b>
Aggregate length of tracks belonging computed as single track,	to this	Compai -	л <b>у</b> , -	-	-	68	76
Same in Michigan, Gauge of track 4 feet 8½ inches.	- <b>-</b>	-	-	<b>6</b> 8	76		

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

J. H. Wade, President, and W. S. Jones, Treasurer, of the Kalamazoo, Allegan & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

J. H. WADE, President. W. S. JONES, Treasurer.

Subscribed and sworn to before me this 7th day of April, A. D. 1888.

[L. s.]

J. H. WADE, Jr.,

Notary Public.

# ANNUAL REPORT

# OF THE

# KALAMAZOO & WHITE PIGEON RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, O. Secretary and Treasurer, C. P LELAND, Cleveland, O.

# DIRECTORS.

JOHN NEWELL, Cleveland, O.

J. H. WADE, Cleveland, O.

C. P. LELAND, Cleveland, O.

D. P. CLAY, Grand Rapids, Mich.

D. B. MERRILL, Kalamazoo, Mich.

J. W. OSBORN, Kalamazoo, Mich.

M. E. WATTLES, Kalamazoo, Mich.

Term expires when successor is elected.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed, -September 24, 1869.

Number of stockholders at date of last election:

One,-Lake Shore & Michigan Southern Railway Company.

Number of stockholders in Michigan at same date:

One,—Lake Shore & Michigan Southern Railway Company.

Amount of full paid stock held in Michigan at same date,

Date of annual meeting of stockholders,—[Not stated.]

Fiscal year of Company ends December 31.

General offices of the Company are located at Cleveland, O.

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\$230,900 00

# REMARKS.

The entire capital stock of this corporation is owned by the Lake Shore & Michigan Southern Railway Company. It pays the interest on the funded debt of the corporation, \$44,000 per annum, and operates it as a part of its Kalamazoo division. Traffic and road statistics are included in the general report of the proprietor Company.—Com. of Railroads.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 No. of shares issued, 2,309	<b>\$230,900 00</b>
Amount paid in on common, \$230,900 00	•
Total amount paid in, as per books of the Company,	230,900 00
Paid in per mile of road owned by Company,—miles, 36.57, \$6,295 00	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
*First mortgage	7 per ct.	July 1, 1890		\$400,000 00
Total funded debt				\$400,000 00

<sup>\*</sup>Included also with debt statement of L. S. & M. S. R'y Co.

# UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt, -	-	-	-	-	-	-	-	<b>\$400,000 00</b>
Total debt liabilities,	_	_	_	_	_	_		\$400,000 00

1887.] KALAMAZOO, & WHITE P	IGEO	N R	AILROA	D'CO.	335
Amount of debt liabilities per mile of ros	d (36	.57	miles),	-	<b>\$</b> 10,956 84
Total amount of stock and debt, Stock and debt per mile of road,	-	-	-	-	630,900 00 17,251 84
Interest on the Fu	nded 1	Debt.			
What is the amount of same due each year, Was it paid for the last year,		-	- -	- -	\$28,000 00 Yes.
COST OF ROAD AND	EQU	IP <b>M</b>	ENT.		
Total Cost for Construction and Equipment of	Road,	and	Branche	<b>s</b> Built	by Company.
Total expended for construction, Average cost of construction per mile of	road (	- (not	- includi		<b>\$</b> 610,000 00
sidings,—36.57 miles),	_	` -	-	-	16,680 00
Proportion of cost of construction for Mi	chiga	n.	_	_	610,000 00

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: May 3, 1867.

# MAIN LINE.

						Miles, 10	10ths, 1	Miles. 1	00ths.
Length completed in Michigan,		•	<b>-</b> '	-	-	36	57		
Total length completed,		-	-	-	-	-	_	36	57
Total length of road belonging to	this	Com	pany	,		-	-	36	57
Total length of road belonging Michigan,		-			_	36	57		
Aggregate length of sidings, spinot above enumerated,	ars,	and	other -	trac	ks -	_	_	5	77
Same in Michigan,		-	-	-	-	5	77	•	• •
Aggregate length of tracks belon	ging	to th	is Co	mpan	у,			40	0.4
computed as single track, Same in Michigan,		- -	-	-	-	42	34	42	<b>34</b>
Gauge of track, 4 feet 81 inches.									

STATE OF OHIO, COUNTY OF CUYAHOGA, Ss.

John Newell, President, and C. P. Leland, Auditor, of the Lake Shore & Michigan Southern Railway Company, owner of the Kalamazoo & White Pigeon Railroad, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL, President. C. P. LELAND, Secretary.

Subscribed and sworn to before me this 5th day of April, A. D. 1888.

[L. S.]

L. ROOD LOOMIS,

Notary Public.

# ANNUAL REPORT

#### OF THE

# NORTHERN CENTRAL MICHIGAN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.

Secretary, Treasurer and Transfer Agent:

C. P. LELAND, Cleveland, Ohio.

# DIRECTORS.

W. K. VANDERBILT, New York city.

W. H. BROCKWAY, Albion, Mich.

JOHN NEWELL, Cleveland, Ohio.

C. T. MITCHELL, Hillsdale, Mich.

S. V. IRWIN, Lansing, Mich.

W. H. CANNIFF, Hillsdale, Mich.

P. P. WRIGHT, Cleveland, Ohio.

A. E. BILLINGS, Hillsdale, Mich.

R. A. MONTGOMERY, Lansing, Mich.

Term expires when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 12, 1866.

Number of stockholders at date of last election, 1 (L. S. & M. S. Ry. Co.)

Number of stockholders in Michigan at same date, \_\_\_\_\_ None.

Amount of full paid stock held in Michigan at same date, \_\_\_\_\_ Nothing.

Date of annual meeting of stockholders,—First Wednesday in May.

Fiscal year of Company ends December 31.

General offices of the Company are located at Cleveland, Ohio.

# REMARKS.

The road of this Company was constructed at the sole cost of the Lake Shore and Michigan Southern Railway Company, who own the entire capital stock of the corporation. It is operated as the Lansing Division of the Lake Shore system, and all details of traffic and road statistics will be found in the report of the proprietor company.—Com. Of Railroads.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$</b> 610,000 00
No. of shares issued, 6,100; all owned by L.	
S. & M. S. Ry. Co. Amount paid in on common,	
Total amount paid in, as per books of the Company,	610,000 00
Paid in per mile of road owned by Company,—miles, 61.14,	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage bonds*	8 per cent	1903		\$1,525,000 00
Total funded debt				\$1,525,000 00

<sup>\*</sup> All owned by the Lake Shore & Michigan Southern Railway Company.

### UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt, .	-	_	-	-	-	•	-	<b>\$1,525,000 00</b>
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$1,525,000 00</b>
Amount of debt liabilitie	s pei	mile	of ro	ad,—6	31.14	miles,		24,942 75

Total expended for construction, **\$1,357,000 00** Average cost of construction per mile of road (not including

sidings),-61.14 miles, 22,195 00 Proportion of cost of construction for Michigan, 1,357,000 00

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 13, 1873.

#### MAIN LINE.

						Miles, 10	Oths.	Miles, 100ths
Length completed in Michigan,		-	-	-	-	61	14	
Total length completed,	-	-	•	-	-	-	-	61 14
Total length of road belonging to Total length of road belonging	this	Comp	any, Comp	- an v	- in	-	-	61 14
Michigan, Aggregate length of sidings, spur	-	-	-	_	-	61	14	
above enumerated.	-	- U	- -	- CF9 II	-			7 10
Same in Michigan,	-	-	<b>-</b>	-	-	7	10	•
Aggregate length of track belong computed as single track,	ing	to th	is Co -	mpan -	y, -			68 24
Same in Michigan, Gauge of track, 4 feet 8½ inches.	-	-	-	-	-	68	24	

STATE OF OHIO, COUNTY OF CUYAHOGA, ss.

John Newell, President, and C. P. Leland, Auditor, of the Lake Shore & Michigan Southern Railway Company, owner Northern Central Michigan Railroad, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

· Signed,

JOHN NEWELL, President. C. P. LELAND, Secretary.

Subscribed and sworn to before me this 5th day of April, A. D. 1888.

[L. S.]

L. ROOD LOOMIS,

Notary Public.

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# ANNUAL REPORT

#### OF THE

# CHICAGO & CANADA SOUTHERN RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio. Vice President, EDWARD A. WICKES, New York city. Secretary and Treasurer, CHARLES F. COX, New York city.

The operating department of this Company is in charge of the general officers of the Lake Shore & Michigan Southern Railroad Company, by whom the property is controlled.

### DIRECTORS.

CORNELIUS VANDERBILT, New York city. WM. K. VANDERBILT, New York city. SAMUEL F. BARGER, New York city. CHAS. F. Cox, New York city. EDWIN D. WORCESTER, New York city. EDWARD A. WICKES, New York city. SIDNEY DILLON, New York city. WM. L. SCOTT, Erie, Pa. JOHN NEWELL, Cleveland, Ohio.

Term expires June, 1888.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Arti	CLEB	of co	1 BOLLO	iation	July	11, 1871.
Number of stockholders at date of last election,	-	-	-		_	98
Number of stockholders in Michigan at same date	-	•		-		8



Amount of full paid stock held in Michigan at same date,—103 shares, \$10,800 00 Date of annual meeting of stockholders,—First Thursday after first Wednesday in June. Fiscal year of Company ends December 31.

General offices of the Company are located at Detroit, Mich.

# REMARKS.

The stock is controlled and the road operated by the Lake Shore & Michigan Southern Railway Company, and all details of traffic or other matters not here supplied will be found in the report of the latter Company.—Com. OF RAILROADS.

# GENERAL EXHIBIT.

m			DEBIT.	CREDIT.
Total income, Total expenses, including taxes,	-	<u>.</u>	\$50,660 62	<b>\$</b> 43,275 13
Net deficit,	-		<b>\$7,385</b> 49	
Interest on funded debt,	-	-	177,870 00	
Balance for the year, .	-	-	. \$185,255 49	
Balance (profit and loss) last year, Balance forward to next year,	 -	-	2,508,423 98	2,693,679 47
			\$2,693,679 47	\$2,693,679 47

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter			ssociation,	_ 8	<b>\$</b> 10 <b>,000,0</b> 00	00
Par value of shares,	_ \$10	00 00	•			
No. of shares issued,	_ 2	6,674				
Amount paid in on common,		-	<b>\$2,667,4</b> 00	00		
Total amount paid in as p	er books o	f the	Company,	-	<b>\$2,667,4</b> 00	00
Paid in per mile of road or pany.—miles, 67.60.			<b>\$39.4</b> 58	<b>5</b> 8		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage coupon, dated April 1, 1872.	7 per cent	April 1, 1902	New York city	\$2,541,000 00
Total funded debt		•••••		\$2,541,000 00

# UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For renewals		<u> </u>
		\$2,578,791 2
For current balances		88,045 8
Total unfunded debt		\$2,661,887 0

# RECAPITULATION.

Total funded d Total unfunde		t,	-	-	-	-	-	-		\$2,541,000 2,661,837	
Total debt	liabil	ities,	-	-	-	-	-	-	-	\$5,202,837	05
Amount of deb	t liab	ilities	per r	nile o	f road	d—67	.6 mi	les,	-	76,965	05
Total amount of Stock and debt					-	-	<b>-</b>	-	- -	7,870,237 116,423	
		GEN	ERAL	BAL	ANCE	SHE	ET.—	Dr.			
Construction a Profit and loss-			-	:	-	-	-	-	- -	\$5,176,557 2,693,679	
Total,	-	-	-	-	-	-	-	-	-	\$7,870,237	05
GENERAL BALANCE SHEET,—Cr.											
Capital stock, Funded debt,		-	-	-	- -	-	-	-	-	\$2,667,400 2,541,000	

Unfunded debt: Interest unpaid, Notes payable, Vouchers and accounts,  Total,	-	- - -	-	. •	32,578,791 4,752 78,293	25 34 46	<b>\$2,661.837</b> 05 <b>\$7,870,237</b> 05				
COST OF ROAD AND EQUIPMENT.											
Total Cost for Construction and Equipment of Road and Branches Built by Company.											
Total expended for constru Average cost per mile of	ction road	and e	quipn incl	nent, uding	sidings)	<u>-</u>	<b>\$5,176,557</b> 58				
67.6 miles, Proportion of cost for Mich	- higan,	-`	-	-	,	-	76,576 29 4,818,712 07				
•							•				
ANALYSIS OF EARNINGS.											
	PASSI	ENGE	EAR	NING	3.						
Main line and branches: Local and through fares,	,	-	-	-	<b>\$14,528</b>	56					
Total passenger fares,	-	-	-	-	<b>\$14,528</b>	56					
Express and baggage, Mails,	- -	-	-	-	603 3,099						
Total passenger earning	ıgs,	-	-	-			\$18,232 17				
Proportion for Michigan	,	-	-	-	\$ 6,975 0	54 37					
Per train mile, - Per mile of road, -	-	-	-	-	269						
•	PRR.	IGHT	EARN	TNGS							
	2142			12,000							
Main line and branches: Local and through traffi	e,	-	-	-	<b>\$</b> 25,042	96					
Total traffic,	-	-	-	-	<b>\$25,042</b>	96					
Total freight earnings	,	-	-	-		-	\$25,042 96				
Proportion for Michigan,	-	-	-	-	<b>\$23,3</b> 16						
Per train mile, Per mile of road, .	-	-	-	-	370	76 45					
Total transportation e	arnin	gs,	-	-		-	\$43,275 13				

Water supply,	_ `	-	-	_	_	-	_	`-	-	252	61
Oil and waste,	_	_	_	_	-	•	_	_	_	143	61
Locomotive ser	vice,	_	_	-	_	_	-	_	_	5,032	28
Passenger train			-	-	_	_	_	-	_	1,760	87
Passenger train			•-	_	_		_	_	-	5	53
Freight train s			-	_	_	_	_	_	_	2,243	24
Freight train s			_	_	_	_	_	_	-	11	26
Telegraph expe	nses (	main	tenan	ce an	d ope	rating	:),	_	_	1,466	80
Damages to pro	perty	and	cattle	·,	- *		.,, <u>.</u>	-	_	208	00
Agents and stat				<b>.</b>	-	_	_	-	-	5,100	99
Station supplies	3,	-	· <b>-</b>	-	-	-	•	-	-	627	<b>52</b>
	•								_		
Total,	-		-	-	-	_	_	-	-	\$20,930	11

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# CLASS 4.—General Expenses.

Salaries of the ge	neral of	icers	of the	в Со	mpan	٧.	_	_	<b>\$5,000</b>	00
Salaries of clerks				_	- ·		_	_	1,231	
Stationery and pr		_		_		_	_		242	07
Contingencies, -	_	_	_	_		_	_		17	62
Taxes, in Michiga	n, \$849.	94,	-	-	-	•	-	-	1,387	54
Total, _	-		_		_	_			\$7,878	 35

# RECAPITULATION OF EXPENSES.

1				Per Cent Of Expenses.		•
Maintenance of way and buildings	۔ وا	-	_	38.83	\$19,673	70
Maintenance of motive power and	cars,	_	-	4.30	2,178	46
Conducting transportation,	_	_	_	41.32	20,930	11
General expenses, including taxes,	-	-	-	15.55	7,878	35
Total operating expenses and	taxes,	•	-	100.00	<b>\$</b> 50,660	62
Operating expenses and taxes per Operating expenses and taxes per	mile o train	f road, mile	un.	<b>\$749 42</b>		
for trains earning revenue, 81,70 Proportion of operating expenses Michigan:	05 mile	98, _	_	0 62		
Main line,	-	-	-	47,168 49		
Total proportion of expenses i	or Mi	chigan	, 📜		47,168	49
Percentage of expenses to earning	8, _		117	<b>A</b> FR F0	•	
Net deficit per mile of road,	-	-	-	<b>\$</b> 57 59		
Net deficit per train mile,	-	-	-	09		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: 1874.

# MAIN LINE.

In Wishiman	Miles.	100ths. 1	Miles, 100ths.
In Michigan: From State Line of Michigan and Ohio to Detroit River	. 62	94	
In Ohio:	,	-	
From State Line of Michigan and Ohio to Fayette,	- 4	66	
Total length completed,	_		67 60

1887.] CHICAGO & CANADA SOUTHERN RAILWAY CO.	347
Aggregate length in Michigan of sidings, spurs, and	- 67 60 2 94 4 08 - 67 02
Gauge of track, 4 feet 81 inches.	
Proprietary or Leased Roads Operated by this Company. None.	•
F7 . 1 . 11	Illes. In Michigan 7 60 62 94
Number of Bridges and Trestles in Michigan.	
Wooden bridges, number of, Stone bridges, number of, Iron bridges, number of, Combination bridges, No. of, Wooden trestles, number of, S; aggregate length, feet, None; aggregate length, feet, 8; aggregate length, feet,	8761   1,3461
Total, 13; aggregate length, feet,	2,223
Draw Bridges in Michigan.	
How many on your line?	None.
$Crossings-Railroad\ and\ Highway.$	
What railroads cross your road at grade in this State, and at w Lake Shore & Michigan Southern R. R., at Chandler, Grosvenon, Flint & Pere Marquette R. R, at Carlton. Toledo, Ann Arbor & North Michigan R. R., at Dundee. What railroads cross your road either over or under your grade and where? None. At what crossings are interlocking and derailing switches in open None.	Corbus and in this State,
Number of crossings of highways at grade in this State,	121
Number of crossings of highways at grade in this State, at which there are gates or flagmen,	None.
Number of cro-sings at which there are electric or automatic signals,	None.
Number of crossings of highways over or under railroad (over, 2; under, 1),	None.
Number of highway bridges, 18 feet above track, Number of highway bridges less than 18 feet above track.	None.

348	MICHIGAN RAILROAD I	RETURNS.	[Dec. 31.
Are your frogs and g	peen erected at over-head o	obstructions? sired by Act 17	4,
Session Laws 1883 How are they treated Cinder blocking—	d?		- Yes.
	Stations.		
Number of stations Same in Michigan,			- 14 - 12
	Employés.		
See Lake Shore &	Michigan Southern Railw	vay Company'	s report.
	REPAIRS AND RENE	WALS.	
	Fencing in Michiga	ın.	
•	Road Bed and Tra	ck.	
Number of track sec	tions in Michigan,		_ 9
Average length of se	ections (miles),		6.99
Average number of I	men in each section gang,		. 28
Number of new ties	put in whole line during the	ne year, ়-	. 18,482 . 17,362
	put in track in Michigan, new ties per mile of road,		279
New rails put in trac			None.
	Bridges and Culver	rts.	
Amount of trestle w	ork replaced with earth d	luring the ye	ar
(linear feet),	aced during the year,		None.
With timber.—nu	mber.		_ 2
New bridges built du	mber, . uring the year,—number,		None.

# ROLLING STOCK.

Owned and reported by Lake Shore & Michigan Southern Railway Company.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger tra Miles run by freight trains					-	-	-	48,754 32,951
Total mileage of train	s earr	ning 1	reven	ue,	-	-	-	81,705
•	P	assen	ger T	raffic.				
	_		<b>4</b>	_ Nu	mbers :	bnd	Miles.	<b>-</b> .
Total number of passe	ngera	carr	ied,	-	uantitie 46,	042	MIIGE,	Rate.
Total passenger mileage, o	r pas	senge	rs ca	rried o	ne m	ile.	538,9	68
Average distance traveled					_	_	11	
Average amount received					_	_	_	- \$0 31.55
Average rate of fare per m	ile fo	rall	pase	ngers,	-	_	_	_ 02.695
		Freig	ht Tro	ıfle.				
Number of tons of throug	h frei	ght	carrie	ed, {				
Number of tons of local f	reigh	t carı	ried,	5	49,	699		
Total tons of freight	carrie	d,	-	-	49,	699		
Total mileage of through:	freigh	t,	_	-	_	- 1		
Total mileage of local frei			-	-	-	- }	988,3	00
Total freight mileage,	or to	ns ca	rried	one m	ile,	-	988,3	<del>00</del> ·
Average ton haul for all fr	eight,	,	-	_	_	_	19	.9
Average amount received in	tor ea	ch to	n ha	ul,	-	-	-	- \$0 50.15
Average rate per ton per n	aile, r	ecei 🔻	ed fo	rall fr	eight	·, -	-	_ 02.522
Freight	Forw	arded	l at 1	fichiga	n Sta	tions.		
_								Forwarded, Tons.
Grain,		-	-	-	_	_	-	5,351
Flour,	_	_	_	-	-	-	-	224
Provisions (beef, pork, lar	d, etc	.),	-	_		-	-	1,124
Animals,	-	_	-	<b>.</b>	-	-	-	1,798
Other agricultural product	8,				-		-	2,147
Lumber and forest produc		-	-	-	-	_	_	17,120
Coal,	_	_	_	-		-	_	1,984
Plaster, lime and cement,	_	_	-	-	_	_	_	575
Salt,		_	_	-	_		_	249
Petroleum,		-	-	_	_	-	_	. 315
Other iron and castings,	_	_	_	-		_	-	_ 161
Stone, brick and sand,			_	_	_		-	741
Manufactures,—articles sh	ipped	fron	n poi	nt of	produ	ection		1,042
Merchandise and other art	icles	not e	num	erated	abov	θ,	•	. 11,294
Total forwarded,	-	-	-	-	-	_	-	. 44,125

# Tonnage of Articles Transported-Entire Road.

					`					Tons.	Per Cent.
Grain,	_	_	_	_	-	-	-	-	-	8,266	16.63
Flour,	_		_	-	-	-	-	-	_	284	.57
Provisions	(bee	f, po	rk, la	ard, et	te	_	-	-	-	1,331	2.68
Animals,	_	-	-	-	-	-	-	-	-	2.586	5.2∪
Other agri	cult	ıral p	rodu	cts,	-	-		-	-	2,806	5.65
Lumber an	d fo	rest r	produ	cts,	_	_	-	-	-	17,909	36.04
Coal,	_		-	-	-	-	-	_	-	1,984	3.99
Plaster, lin	ne a1	nd ce	ment	, -	-	-	-	-	•	575	1.16
Salt,	_	-	-	_	-	-	-	-	-	249	.50
Petroleum	,	-	-	_	-	-	-	-		315	.63
Other iron				-	-	-	-	-	-	161	.32
Stone, bric	k an	d sar	nd,	-	-	-	-	-	-	741	1.49
Manufactu	res,-	-arti	cles	shippe	ed fro	m po	int of	prod	luc-		
tion,	-	-	-	-	-		-	-	-	1,042	2.10
Merchandi	80 &1	nd ot	her	article	s not	enun	nerate	d abo	ονθ,	11,450	23.04
Total	tons	carr	ied,	-	-	-	_	-	_	49,699	100.00

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

United States Express Companies.

Freight taken at depots. Rate 25c per 100 pounds.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? See Lake Shore & Michigan Southern Railway report.

# TRANSPORTATION COMPANIES.

# Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

See Lake Shore & Michigan Southern Railway report.

# Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? See Lake Shore & Michigan Southern Railway report.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

KILLED.

See Lake Shore & Michigan Southern Railway report.

INJURED.

See Lake Shore & Michigan Southern Railway report.

STATE OF OHIO, COUNTY OF CUYAHOGA, Ss.

John Newell, President, and C. P. Leland, Auditor, of the Chicago & Canada Southern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL, C. P. LELAND.

Subscribed and sworn to before me this 9th day of April, A. D. 1888.

[L. S.]

L. ROOD LOOMIS, Notary Public.

# ANNUAL REPORT

#### OF THE

# MILWAUKEE & NORTHERN RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALFRED M. HOYT, New York.

Vice President, JAMES C. SPENCER, Milwaukee.

Secretary, CHARLES RAY, Milwaukee.

Auditor, ROBT. TOOMBS, Milwaukee.

Treasurer, CHARLES RAY, Milwaukee.

General Manager, C. F. DUTTON, Milwaukee.

Superintendent, H. M. BELL, Green Bay.

Chief Engineer, S. B. FISHER, Green Bay.

Assistant Treasurer, JNO. C. SPENCER, Milwaukee.

General Passenger Agent, W. B. SHEARDOWN, Milwaukee.

Geenral Freight Agent, J. C. FORESTER, Milwaukee.

Acting Attorney, A. H. BRIGHT, Milwaukee.

#### DIRECTORS.

ALFRED M. HOYT, New York.
SAMUEL N. HOYT, New York.
ANGUS SMITH, Milwaukee.
JAMES C. SPENCER, Milwaukee.
CHARLES RAY, Milwaukee.
EPHRAIM MARINER, Milwaukee.
GUIDO PFISTER, Milwaukee.

Term expires first Tuesday in June.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 5, 1880.	
Number of stockholders at date of last election,	41
Number of stockholders in Michigan at same date,	None.
Date of annual meeting of stockholders,—First Tuesday in June.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Milwaukee, Wis.	

# GENERAL EXHIBIT.

		DERIT.		CREDIT.	
Total income, Total expenses, including taxes,		\$635,903	38	<b>\$</b> 976,137	99
Net income,			-	\$340,234	61
Interest on funded debt, Rentals of buildings, tracks, etc.,		200,100 20,661		220,761	57
Balance for the year,			-	\$119,473	04
Balance (profit and loss) last year, Balance forward to next year,		\$134 <b>,92</b> 3	43	15,450	39
		\$134,923	<b>4</b> 3	\$134,923	43
ANALYSIS OF C	APITAL	STOCK.			
	les of ass 100 00 <b>41</b> ,350	ociation,	-	<b>\$8,000,000</b>	00
A		\$4,135,000	00		
Total amount paid in, as per book	s of the	Company,	-	4,135,000	00
Paid in per mile of road owned by pany,—miles, 242.50,	Com-	<b>\$17,000</b>	00		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage on road between Schwartzburg and Green Bay, and Hilbert, Menasha and Neenah and Appleton, issued June, 1880	6 per cent.	1910.	New York.	\$2,155,000 00
First mortgage on road north of Green Bay, and second south of Green Bay, issued Feb- ruary, 1884	6 per cent.	1918.	New York	1,976,000 00
Total funded debt	• • • • • • • • • • • • • • • • • • • •			\$4,181,000 00

# UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		-
For equipment		
For real estate		•••••
		\$210,917 8
Total unfunded debt		\$210,917 8

# RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-		\$4,131,000 210,917			
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$4,341,917</b>	31		
Amount of debt liabilities	per 1	nile o	f road	l,—24	2.50	miles,	-	17,904	81		
Total amount of stock and Stock and debt per mile o			-	-	-	-	-	8,476,917 34,956			
GENERAL BALANCE SHEET,—Dr.											
Construction account, Equipment account, gener	al pr	- operty	, - /,	-	<u>-</u>	-	}	<b>\$</b> 8, <b>4</b> 26,721	47		
Cash items: Due from agents,	-	-	-	-		25,9 <b>5</b> 5	73	25,955	73		

Other assets: Materials an Debit balance	d sup	plies,	om Da	- nies s	ınd ir	.di-	<b>\$</b> 65,238	43	
viduals,	•	-	-	-	- ,	-	93,925	11	<b>4150 169 5</b> 4
			•		.:				<b>\$</b> 159,163 54
Total,	-	-	-	-	-	-		-	\$8,611,840 74
		GE	NERAI	L BAI	ANCE	shi	EET,—Cr.		
Capital stock,	_	_	_	_	_	_	\$4,135,000	00	
Funded debt,	-	_	-	_	-	_	4,131,000		
									<b>\$8,266,</b> 000 00
Unfunded deb				,			\$44,490	00	
Interest unp Vouchers an		- ounts	and	- nav r	olla.	•	166,427		
1 011011010 111			,	P-J	<b>-</b>	-			210,917 31
Profit and loss	or in	come	accor	ınts,	-	-		-	134 923 43
Total,	-	-	-	-	-	-		-	<b>*8,611,840</b> 74
		COST	r of	ROAI	ANI	EQ	UIPMENT.		
Total Cost for C	onstru	ction	and E	quipm	ent of	Road	and Branch	es B1	uilt by Company.
Total expende Average cost p								2.50	<b>\$8,426,721 47</b>
miles, _	_	-	-	` -	-	-		-	34,749 37
Proportion of	cost f	or Mi	chiga	n,	-	-		-	1,972,000 00
Road in Mic	higan	. Re	publi	c Bra	nch R	ailro	ad was con	solid	lated with the

Milwaukee & Northern Railroad, under name of the latter, January 6, 1887. Milwaukee and Northern securities, \$17,000 per mile bonds, and \$17,000 per mile stock, to be issued in place of equal amount of Republic Branch Railroad securities. Road not yet completed and no securities yet issued.

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR,

# MAIN LINE.

New buildings,		_	_	_	_	_	_	-	_	\$10,802	67
New fences,	_		_	_		_		_	_	2,704	
Machinery and	tools.	_	-	_	_	_	_	_	_	2,661	
Equipment,	_		_	_	_	_	_	_	_	111,383	
Other property	accou	nts,	-	-	-	-	-	-	-	73,708	
Total charg	ges to	prop	e <b>rty</b>	accou	nt as	abov	θ, _	-	-	\$201,259	62
Net addition to	prope	erty a	ccou	nt,	-	-	-		-	201,259	62

# MICHIGAN RAILROAD RETURNS.

# ANALYSIS OF EARNINGS.

# PASSENGER EARNINGS.

	PASI	SENGI	SK KA	RNIN	us.				
Main line and branches:	:								
Local fares,	•							\$196,026	24
Through fares,	-	-	. <b>-</b>	-	-	-	-	29,145	
Infougn lares,	-	•	-	•	-	-	-	20,140	V¥
(Taba) a success man fami	۲_							4005 171	90
Total passenger far		-	-	-	-	-	-	<b>\$</b> 225,171	<i>2</i> 0
Express and baggage,	-		-	-	_	-	-	12,476	
Mails,	_	_	_	-	_	-	-	20,535	90
-									
Total passenger ear	nings,	-	_	-	-	-	_	\$258,183	65
	•							_	
Proportion for Michig	ran.				<b>\$</b> 1	3,885	61		
Per train mile,	,uu,	-	-	-	V-	.0,000	60 <del>1</del>		
Per mile of road,	-	-	•	-		905			
rer mile of road, _	-	-	-	-		900	10		
•									
	FR	EIGH	T EAF	RNING	8.				
Main line and branches	•								
Local traffic,	•				\$4(	2,438	92		
Through traffic,	-	-	-	-		4,340			
Infough traine,	-	-	-	-		TT, UTU	<b>T</b> U		
Total traffic,								\$716,779	27
Total traine, -	-	-	-	-	-	•	•	<b>4110,113</b>	
Total freight earning	n era							\$716,779	27
Torsi Height earnii	rge,	-	-	-	-	-	-	<b>\$110,113</b>	01
Proportion for Wishins	_				• 9	00 K40	77.4		
Proportion for Michigan	ц, -	-	-	-	Φ.	38,549		•	
Per train mile, Per mile of road,	-	-	-	-			91		
Per mile of road,	-	-	-	-		2,514	66		
Total transportation ear	rnings,	_	_	-	_	_	_	974,963	02
Transportation earnings	s ner m	ile of	road.			3,420	44	•	
Transportation earnings							22		
From other sources,	per ur	WILL 11.	1110,	-		-	~~	1,174	Q/Y
From other sources,	-	-	-	-	-	-	-	1,114	91
Total earnings from		tion o	£ 700	a				\$976,137	90
Torsi earnings iron	r obera	non (	)I TOM	u, _	-	-	-	<b>4</b> 910,101	00
		_					_		
Total earnings per mile		l,	-	-		3,424			
Total earnings per train	mile,	-	-	-		1	22		
Proportion of taxable es	rnings	for M	Michig	an.	ŧ	52,498	50		
Total taxable earnings	ner m	ile of	ะกลา	in	-	,			
Michigan	Por					3,424	56		
Michigan,	-	-	-	-		U, <b>T</b> 4 <b>T</b>	00		
Total income from	all son=	000						\$976,137	90
Torsi income irom	err earl	uus,	-	-	-	-	•	<b>49(0)19(</b>	IJIJ
	_								
Proportion of income for	or Mich	igan,	-	-	-	-	-	<b>52,4</b> 98	<b>50</b>
_									

## ANALYSIS OF EXPENSES.

## CLASS 1.—Maintenance of Way and Buildings.

Repairs of road	way a	nd tr	ack,	-	-	-	-		-	\$92,292	
Renewals of ties		_	-	_	_	-		-	-	21,482	31
Repairs of brid	ges, ir	ıcludi	ng cu	lver	ts and	cattle	guai	rds,	_	7,377	
Repairs of fenc	es, ros	d cro	ssing	s, an	d sign	8.	-	_	_	5,598	96
Repairs of build	lings,	_		-		· <u>-</u>	_	-		14,028	
-	•										
Total,	-	-	-	_	-	-	_	_	-	\$140,779	57
	CLASS	2.—1	<i>lainte</i>	manc	e of M	otive.	Power	and C	ars.	,	
Repairs of loco	moti <b>v</b> e	98.	_	_	_			_		<b>\$34,</b> 980	10
Repairs of pass			_	_	-	_	_	_	-	21,393	
Repairs of freig				-	_	-	-	-	•	33,108	
reobants of more	,	,	•	-	-	-	•	-	-		
Total,	-	-	-	-	-	-	-	-	-	\$89,482	27
		CLASS	3.—0	Condi	ucting	Trans	portai	ion.			
Fuel for locome										<b>6</b> 09 100	1.6
	-		-	-	-	-	•	-	•	\$93,109	
Water supply, Oil and waste,	-	-	-	-	-	-	-	•	-	2,588	
T		-	-	-	-	-	-	-	-	7,002	
Locomotive ser Passenger train	V1C0,		-	-	-	-	-	-	-	75,875	
Passenger train	BOTVI	ce,	-	-	-	-	-	-	-	19,711	
Passenger train Mileage of pass	supp	108,	-	•	-	-	-	-	-	2,939	
Mileage of pass	enger	cars,			-	-	-	-	-	7,170	
Freight train so			-	-	-	-	-	-	-	38,552	
Freight train s	abbne	s,	-	-	-	-	-	-	-	687	
Mileage of frei	ght ca	rs,	-	-			`-	-	-	16,782	
Telegraph expe	nses (	main	tenan	ce ai	ad ope	eratin	g),	-	-	14,260	
Damage and lo					gage,	-	-	-	-	333	
Damages to pro					-	-	-	-	-	2,798	
Personal injuri Agents and stat	08,	-	-	-	-	-	-	-	-	1,575	
Agents and stat	tion se	rvice	,	-	-	-	-		-	39,064	
Station supplies	8,	-	-	-	•	-	•	-	-	2,365	37
Total,	_	-	_	_	-	-		_	-	\$324,817	25
		(	Tr.Agg	4	Jenera	l Econ	m eo e				
						_					
Salaries of the	genera	n offic	cers o	f the	Com	pany,	-	-	-	\$19,744	
Salaries of cleri	cs in g	enera	d offic	ces,	-	-	-	-	-	13,509	
Law expenses,			-	-	-	-	-	-	-	165	
Insurance,	<b>-</b>	-	-	-		-	-	-	-	1,869	
Insurance, Stationery and	printi	ng,	-		-	-	-	-	-	10,391	
Outside agencie	es and	<b>80.76</b>	rtisin	g,	-	-	-	-	-	15,528	
Contingencies,	-	-	-	-	-	-		-	•	12,713	
Taxes,	-	-	-	-	-	-	-	-	-	6,810	56
Total.	_	_	_	_	-	_	_	_	_	\$80,824	29

#### RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and cars Conducting transportation, General expenses, including taxes,	 • - 	Per Co Expe - 29 - 14 - 51	\$140,779 57 \$ 89,482 27 \$ 324,817 25
Total operating expenses and taxes	B, _	_ 100	8635,903 38
Operating expenses and taxes per mile Operating expenses and taxes per traifor trains earning revenue,—801,279. Proportion of operating expenses and Michigan:	n mile ru 84 miles,	ın,	11 79
Main line,	-	_ 30,691	82
Total proportion of expenses for l	Michigan,		30,691 82
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	 	\$1,192 -	65 13 42.50

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Main line:

From Schwartzburg to Champion, Mich., November 20, 1887.

Branches:

From Hilbert to Neenah and Appleton, Menasha, 1874; Appleton, 1879; Neenah, 1880.

From Ellis Junction to Mennekaunee and Menominee, January, 1884.

## MAIN LINE.

T AF: 1 '		Miles, 100ths, Miles, 100ths						
In Michigan: From Menominee river to Champion, In Wisconsin:	-	58 00						
From Schwartzburg to Menominee river,	-	195 70						
Total length completed,	-	235 70						
BRANCHES.								
Appleton, from Hilbert to Neenah and Appleton,	_	22 00						
Menominee, from Ellis Junction to Mennekaunee,	-	24 80						
Spurs in Wisconsin,	-	10 96						
Total length of branches owned by Company.	_	57 76						

Total length of branches owned by Company in Michigar Total length of road belonging to this Company, Total length of road belonging to this Company in Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging to this Company, computed as single track, Gauge of track, 4 feet 8½ inches.	58 1 1	one 311 46 00 32 32								
Proprietary or Leased Roads Operated by this Company.										
Total Miles. In Michigan										
Name, description and length of each: South Milwaukee to Schwartzburg,		10 10								
Total,	. 15	20								
Total miles operated by the Company, average	285	04 15 33								
Number of Bridges and Trestles in Michig	an.	•								
Wooden bridges, number of, Iron bridges, number of, Wooden trestles, number of, -; aggregate length, fee -; aggregate length, fee	t, _ t ( <del>]</del> in M	280.5 ich.), 235 6,733								
Total,5;		7,248.5								
Draw Bridges in Michigan.										
How many on your line?	. <u>-</u>	None.								
Crossings—Railroad and Highway.										
What railroads cross your road at grade in this State, at West Republic spur, D. S. S. & A. R. R., at Republic Republic Mine spur, D. S. S. & A. R. R., at Republic Republic branch, D. S. S. & A. R. R., two miles nort Champion Mine, D. S. S. & A. R. R., at Champion. Ludington Mine, C. & N. W. R. R., at Iron Mountain What railroads cross your road either over or under you and where?  Under grade: Chicago & Northwestern R. R., at Iron Mountain. At what crossings are interlocking and derailing switched None.	h of Ren	public. in this State, ration?								
Number of crossings of highways at grade in this State,		13								
Number of crossings of highways at grade in this Stawhich there are gates or flagmen,		None.								
Number of crossings at which there are electric or auto signals,	matic -	None								

			OZZZG.	A11 160		AD II.		110.		[100. 01
Number of cr	ossing	gs of	hig	hways	over	or t	ınder	railr	oad	
(over, none;	unde	r, 1)	) <b>,</b>	-	-	' <b>-</b>	-	_	-	
Number of highway bridges, 18 feet above track,										Non
Number of hig	hway	brid	ges, le	ess the	ın 18	feet a	bove	track,	, -	Non
Have safety-gu	ards b	een e	recte	d at o	ver-h	ead ol	ostruc	tions	-	Ye
Are your frogs	and g	guard	l rails	block	ed as:	requir	ed by	Act 1	74.	
Session Law			_	_	_	-		_	_	Ye
How are they t	reated	1?								
Filled in wit										
				_		•				
				S	tation	8.				`
Number of sta	tions (	on w	hole l	ine,	-	-	-	-	-	$\epsilon$
Same in Michi	gan,	-	-	-	-	-	-	-	-	1
				En	nploye	<b>%</b> .				•
Number of per	rsons :	regul	arly	emplo	yed o	n all i	roads	opera	ted	•
by Company, Same in Michi Classify your e	, inclt	iding	offic	ials,	-	-	٠ _	-	-	78
same in Michi	gan,		-	-	-	-	-	_	-	10
lassify your e	mploy	768 as	per 1	followi	ing li	st:				
			•		U					Numb
Baggagemen	۱	_	_	_	_	_	_	_	_	
Brakemen.	. <b>,</b> -	_	_	_	_	-	_	_	-	
Brakemen, Conductors,	-	•	-	•	•	-	-	-	-	,
Engineers	-	-	-	-	•	-	-	-	-	í
Engineers, Firemen and Laborers,	- Wina	- <b>n</b> a	-	-	-	-	-	-	-	,
Luponone	wibe	16,	-	-	-	-	-	-	•	20
Chamman	-	-	-	-	-	-	-	-	•	
опоршен,	-	-	. <b>-</b>	-	-	-	-	-	-	9
Shopmen, Yardmen, Others,	-	-	-	-	-	-	-	-	-	4
Otners,	-	-	-	-	-	-	-	-	-	20
			REPA	IRS A	ND B	ENEW	ALS.			
			F	encing	in M	ichiga	n.			
How many mil	es of	fenc	ing h	ave yo	u?	-	_	-	-	
live the num sides of you	ber of	f mi] k, in	es re Mich	quired igan,	to c	omple he cou	ete fe inties	nce t in wh	oth ich	
needed: Menominee	and M	farqı	ıette,	-	-		-	-	_	ł
		•	•							
		_	-	-	-	-	-	-	-	ŧ
Total mile	:8,									
Total mile	:8,		R	oad Be	ed and	i Trac	k.			
		ction				i Trac	k.	_		10
Total mile Number of tre	ack se	ction	s in l	Michig		i Trac	<b>k.</b> -	-	•	10 5

ROLLING STOCK.		<b>-</b> .
	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight exclusive of tender,	_ 23	<b>\$138,000 00</b>
Number of locomotives of 20 to 30 tons weight exclusive of tender,	5 - 5	25,000 00
Total,	_ 28	163,000 00
Number of passenger cars-12-wheel, including	g	
official cars,	. 6	19,500 00
Number of passenger cars—8-wheel, including	g	-
official cars,	. 17	51,000 00
Number of express and baggage cars,	_ 9	18,000 00
Number of box freight cars,	458	125,950 00
Number of stock cars,	_ 10	2,500 00
Number of platform cars,	207	31,050 00
Number of ore cars,	_ 25	7,500 00
Number of conductor's way cars,	_ 23	8,400 00
Number of conductors way cars,	- 12	0,400 00
' Total,	744	<b>\$426,900 00</b>
Number of locomotives equipped with power	er .	
brakes,	24	
Number of passenger-train cars equipped wit		
power brakes,	32	
What patterns of power brakes have you in use		
and number of locomotives and cars with each	9	
	1.5	
Westinghouse air:	10	
Locomotives,	. 18	
Passenger cars,	_ 32	
Eames vacuum:		
Locomotives,	_ 6	
Are your freight ears being equipped with outom	atic commisms	as massined by

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?

New cars built for this Company since law went into effect have automatic coupler.

What pattern or patterns have you adopted for use? Blocker.

## MILEAGE, TRAFFIC, ETC.

## Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	425,565 375,715
Total mileage of trains earning revenue,		-		801,280

## Passenger Traffic.

affic.	•				
	Numbers Quantit	and ies.	- Mile	<b>8</b> .	Rate.
	11.7	08			
-					
-		_			
-	250,50	)0	•		
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- - - - t of		- - - - - - ion,			Tons. 37 3 67 82 548 48,418 403
	ried er, ger, pass nger ffic.	Numbers Quantit  11,76 238,7 250,56  ried one miler, ger, ger, passengers, ngers, 16.  dd, 222,25 312,96 535,1  one mile, through fre- local freigh	Numbers and Quantities.  - 11,708 - 238,792 - 250,500  ried one mile, 8 er,	Quantities.  11,708 238,792 250,500  ried one mile, 8,990,8 er, ger, passengers, sengers, ngers,	Numbers and Quantities.  - 11,708 - 238,792 - 250,500  ried one mile, 8,990,818 er, - 36 ger, -

## Tonnage of Articles Transported—Entire Road.

										Tons.	Per Cent.
Grain,	_		-	-	_	-	-	-	-	50,292	9.40
Flour,	-	_	_	_	_	_	_	_	-	6,729	1.26
Provision	s (be	ef, po	rk, la	rd, etc	.),		-	_	_	9,958	1.86
Animals,		-	_	_	_	_	_	_	-	4,258	.80
Lumber	and fo	orest	produ	cts,	_	_	_	-	_	204,353	38.19
Coal,	_	-		_	-	-	-	_	-	31,852	5.95
Salt,	_	_	_	-	_	-	-	_	_	5,185	.97
Iron and	castir	ıgs,	_	_	-	-	_	-		28,114	5.25
Ores,	_	_	_	-	_	_	-	_	-	82,871	15.49
Stone, br	ick a	ad se	ind,	-	_	-	-		-	23,688	4.42
Manufaci	tures,	art	icles s	hipped	fro	m poi	at of	produ	action	, 22,220	4.15
Merchan	dise a	nd o	ther a	rticles	not	enum	erate	d abo	ο <b>ν</b> ε,	<b>65,</b> 600	12.26
Tota	l tons	cari	ied,	-		_	_	_	_	535,120	100.00

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company.

Do a regular express business, paying a rate per month up to a certain weight per day, and on excess over this fixed weight a rate per 100 pounds. The Railroad Company keeps cars in repair and running order, and takes and delivers the Express Company's freight at the Railroad Company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 300.50 miles; owned half by the Railroad Company and half by the Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Co., Chicago, Ill., mileage, \_\_\_\_ \$180 66

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

No fast freight line cars were used in traffic between local points in

Michigan.

REPORT (	F	ACCIDENTS	FOR	MICHIGAN	DURING	THE	YEAR	1887.

KILLED.

None.

INJURED.

None.

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, Ss.

James C. Spencer, Vice President, and Robert Toombs, Auditor, of the Milwaukee & Northern Railroad Co., being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

J. C. SPENCER. R. TOOMBS, Auditor.

Subscribed and sworn to before me this 3d day of April, A. D. 1888:
PHILIP D. KENNEDY,
Notary Public, Milwaukee Co., Wis.

#### ANNUAL REPORT

OF THE

# FLINT & PERE MARQUETTE RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. W. CRAPO, New Bedford.

Vice President and General Manager, H. C. POTTER, East Saginaw.

Secretary and Treasurer, H. C. POTTER, Jr., East Saginaw.

Auditor, GILBERT W. LEDLIE, East Saginaw.

Assistant General Manager, DAVID EDWARDS, East Saginaw.

Superintendent, S. KEELER, East Saginaw.

Assistant Superintendent, WM. F. POTTER, East Saginaw.

Chief Engineer, WM. B. SEARS, East Saginaw.

Superintendent of Telegraph, C. S. CHENEY, East Saginaw.

General Freight Agent, A. PATRIARCHE, East Saginaw.

Attorney, WM. L. WEBBER, East Saginaw.

#### DIRECTORS.

ALFRED M. HOYT, New York.

CORNELIUS D. WOOD, New York.

SAMUEL N. HOYT, New York.

WM. W. CRAPO, New Bedford, Mass.

FRANCIS HATHAWAY, New Bedford, Mass.

LOBEN SNOW, New Bedford, Mass.

ABRAM G. BROWER, Utica, N. Y.

LEWIS PIERCE, Portland, Me.

H. C. POTTER, East Saginaw, Mich.

WM. L. WEBBER, East Saginaw, Mich.

'Term expires third Wednesday in May.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, -August 81,	1880	).						
Number of stockholders at date of last election,	-	-	-	1,227				
Number of stockholders in Michigan at same date,	-	-	-	14				
Amount of full paid stock held in Michigan at same date,	-	-	-	\$159,700 00				
Date of annual meeting of stockholders,—Third Wednesday in May.								
Fiscal year of Company ends December 31.								
General offices of the Company are located at East Saginav	w.							

## GENERAL EXHIBIT.

Total income,	-	-	-	DEBIT		CREDIT \$2,433,536	-
Total expenses, including taxes,	-	-	-	\$1,671,018	94		
Net income,	-	-	-		-	\$762,517	84
Interest on funded debt, Balance applicable to dividends, Dividends declared (6½ per cent)		- -	<u>.</u> -	334,057 - - 422,500	_	<b>4</b> 28,460	51
Balance for the year,		-	-		_	5,960	51
Balance (profit and loss) last yes Balance forward to next year,	ır, -			26,312	58	20,352	07
				\$26,312	58	\$26,312	58
ANALYSIS  Amount authorized by charter of Par value of shares,  No. of shares issued,  Amount paid in on preferred,  Total amount paid in as per	r ar - -	\$100 \$100 65,00	ta. 00 00 −	\$6,500,000	- 00	<b>\$</b> 6,500,000	
Paid in per mile of road owned —miles, 337.04,	b <del>у</del> ( -	Compan -	y, -	<b>\$</b> 19,285	54		

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Flint & Holly lease	10	May 1, 1888	New York city	\$300,000 00
Holly, Wayne & Monroe	8	Jan. 1, 1901	New York city	1,000,000 00
F. & P. M	6	Oct. 1, 1930	New York city	8,924,000 00
Equipment	5	Principal pay-     able in 10 year-     ly installments	Boston, Mass	285,000 00
Total funded debt				\$5,509,000 00

## UNFUNDED DEBT.

For What Incurred.	Is the same to be Funded, or how Liquidated.	Amount
For construction		1
For equipment		
For real estate		
For renewals		
For miscellaneous		
		1
		l.

## RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-		-	-		\$5,509,000 1,168,317	
Total debt liabilities,	-	-	-	-	-	-	-	\$6,677,317	78
Amount of debt liabilities	per	mile	of ro	ad,—8	37.04	miles	, -	19,811	65

# GENERAL BALANCE SHEET,-Dr.

Construction according to the count construction F. & P. M. ster Account construction Stock in F. & Stock in Manis Dining room and count construction of the count construction of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the cou	amers, 1, ruction st P. M. R.	ying s 2, and eamer R.,	ame): l 3, , 4,	-	-	1	92,262 14,950 58,000 00,000 5,201	09 00 00 00 74		OF.
Cash items:									<b>\$12,046,672</b>	80
Clock	_	_	_	_	_		74,164	99		
Due from agen	ts, _	_	•	-	_		51,277			
J	·								325,4 <b>4</b> 2	45
Other assets:										
Materials and	supplies,	-	-	-	-	\$1	50,861			
Sinking funds,	•	-	-		-		4,500	00		
Debit balance f			and in	ndivid	lual	8, 1	17,840	42		
Advances Mani	istee R. I	₹.,	-	-	-		12,423			
Trustee real est	tate,	-	-	-	-		15,000	00		
Trustee real est Equipment ren	ewals,	-	-	-	-		29,167	06		
Saginaw Car T	rust Co.,	-	-	-	-	4	01,722	20		
									881,515	06
Total,	-	-	-	-	-	-	-	-	<b>\$</b> 13,203,630	36
Capital stock, _ Funded debt, _	<b>GE</b> : -	NERA - -	L BAI	ANCI	e si	<b>IEE</b> T - -	-,—Cr.	-	\$6,500,000 5,509,000	00 00
Capital stock, _ Funded debt, _	- GE	NERA - -	L BAI	ANCI - -	- -	- - -	- - -	•	5,509,000	00
Funded debt,	GE: -	<b>NERA</b> ! - -	L BAI	ANCI - -	- -	- - -	',—Cr. - -	-	\$6,500,000 5,509,000 \$12,009,000	00
Funded debt, Unfunded debt:	- -	-	L <b>BAI</b>	- -	- -	-	- -	-	5,509,000	00
Funded debt, Unfunded debt: Interest unpaid	. <u>.</u> -	-	- ·	-	E <b>SI</b>	-	66,285	. 00	5,509,000	00
Funded debt, Unfunded debt: Interest unpaid	. <u>.</u> -	-	- ·	- - - -	- - -	- - \$ 2	- - 66,285 27,500	00	5,509,000	00
Unfunded debt: Interest unpaid Dividends unpaid Notes payable,	- - aid, -	- - -	- ·	-	E SI	- - * 2	- 66,285 27,500 11,113	00 00 01	5,509,000	00
Funded debt, Unfunded debt: Interest unpaid	- - aid, -	- - -	- ·	-	- - -	- - * 2	- - 66,285 27,500	00 00 01	\$12,009,000	00
Unfunded debt: Interest unpaid Dividends unpaid Notes payable,	aid, -		-	-	- - - -	- - * 2	- 66,285 27,500 11,113	00 00 01	5,509,000	00 00 78
Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a	aid, -		-	-	- - -	- - * 2	- 66,285 27,500 11,113	00 00 01 77	5,509,000 \$12,009,000 1,168,317 26,312	78 58
Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a	aid, -		-	-	- - - -	- - * 2	- 66,285 27,500 11,113	00 00 01 77	5,509,000 \$12,009,000 1,168,317	78 58
Funded debt,  Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a  Profit and loss  Total,	aid, - accounts, or incom	e acco	unts,	- - - - -	- - - - -	- - 2 5 3 - - -	66,285 27,500 11,113 63,419	00 00 01 77	5,509,000 \$12,009,000 1,168,317 26,312 \$13,203,630	78 58 36
Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a	aid, - accounts, or incom	e acco	unts,	- - - - -	- - - - -	- - 2 5 3 - - -	66,285 27,500 11,113 63,419	00 00 01 77	5,509,000 \$12,009,000 1,168,317 26,312 \$13,203,630	78 58 36
Funded debt,  Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a  Profit and loss  Total,	ccounts, or incom COST	- - - e acco - OF R	oAD	- - - - - - AND I	- - - - - - - - - - - - - - - - - - -	* 2 5 3	66,285 27,500 11,113 63,419	000 001 777	5,509,000 \$12,009,000 1,168,317 26,312 \$13,203,630	78 58 36
Funded debt,  Unfunded debt: Interest unpaid Dividends unpaid Notes payable, Vouchers and a  Profit and loss  Total,  Total Cost for Cons  Total expended f	ccounts, or incom  COST truction a	- - - e acco - OF R	oAD	- - - - - - AND I	- - - - - - - - - - - - - - - - - - -	* 2 5 3	66,285 27,500 11,113 63,419 	00 00 01 77 - - s).	5,509,000 \$12,009,000 1,168,317 26,312 \$13,203,630 will by Compa	78 58 36

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MA	IN	LIN	E.
----	----	-----	----

Extensions, New buildings, New fences, New cars,	-	- - -	- - -	- - - -	-			- - -	\$110,611 10,909 157 1,260	07 02 86
Total,	-	-	-	-	-	-	• •	-	<b>Φ126,830</b>	90
				BRA	NCH	ES.				
Extensions, New buildings, New fences,	- - -	-	- - -	- - -	-	- - -	\$24,859 462 292			
Total,	-	-	-	-	_	-		-	25,614	37
Total charg	ges to	prope	rty	accoun	t as	above	, <b>-</b> -	-	\$148,552	93
Property sold a	nd c	redited	i,	-	-	-		-	3,038	24
Net addition	n to	proper	ty s	ccount	;,	-		-	\$145,514	69
Main line and b	ranc			LYSIS SENGE						
Local fares,	_	-	-	-	-	-		-	<b>\$</b> 665,347	
Through fare	8,	-	-	-	-	-		-	23,328	11
Total passe	nger	fares,	-	-	-	-		-	<b>\$7</b> 88.675	57
Express and l	agga -	age,	-	-	-	-		-	28,897 38,242	
Total passe	nger	earnin	ıgs,	-	-	-		_	<b>\$</b> 755,815	27
Proportion fo Per train mile	Э,	_	ı, -	-	-	-	<b>\$755</b> ,815	27 89		
Per mile of r	oad,	-	-	-	-	-	2,106	37		
		_	FR	EIGHT	EAR	RNINGS	١.			
Main line and b Local traffic,		nes:					<b>\$</b> 1,488,794	59		
Through traff		-	-	-	-	-	118,682			
Total traffic	-	-	-	-	-	_ :	<b>\$1,607,476</b>			
Total freigl	ıt ea	rnings	,	-	-	-		-	<b>\$1,607,476</b>	66

							•	
Proportion for Michigan	1.	_	_	_	\$1,607,476	66		
Per train mile,	-,	_	_	_	1	31		
Per mile of road,	-	-	-	•	1 4,421	36		
Ter mile or road,	-	-	-	-	7,701	<i>0</i> 0		
Total transportation	earniı	ngs,	-	-		-	<b>\$</b> 2,363,291	93
Transportation earnings p	er m	ile of	road	_	<b>\$</b> 7,011	90		
Transportation earnings p	er tr	ain mi	le l	, -		14		
Miscellaneous receipts from	m one	rating	eren	nnt	-			
other than for transport								
From other sources,	COLLOI	1, 26 10	ATO M.E	••	628	16		
From oundr sources,	•	-	-	-				
Total,	-	-	-	-		-	628	16
Total earnings from o	perat	ion of	road	<b>,</b>		-	\$2,363,920	09
Total asymings now mile of	hoor!				• <b>6</b> 6 500	92		
Total earnings per mile of			-	-	<b>\$</b> 6,500	25 14		
Total earnings per train n	ine,			-	- 1			
Proportion of taxable ears	nngs	lor N	rionis	an,	<b>2,363,92</b> 0	09		
Total taxable earnings pe	er mı	le of	road	ın				
Michigan,	-	-	-	-	6,500	23		
Income other than from e		gs:						
Rents,	_	-	-		2,151	75		
Interest on balances,			-	_	4,863	39		
Net earnings steamers,			_	_	62,601			
,							69,616	69
PD 4 3 4 3 3								<del></del>
Total income from all	Bour	oes,	-	-		-	<b>\$2,433,536</b>	78
Proportion of income for	Mich	igan,	-	-	<b>\$</b> 2, <b>4</b> 33,536	78		
А	.NAL	ysis (	)F E	KPE:	nses.			
CLASS 1.—	Main	tenano	of V	Vay	and Building	8.		
Repairs of roadway and tra	ack.	_	_			_	\$173,655	84
Renewals of rails,	_ ^	_	_	_			61,036	
Renewals of ties,	_	_	_	_	_	_	28,53	
Repairs of bridges, includ	ing c	nlvert	e and	Cat	le guarde	-	29,890	
Repairs of fences, road cre						-	18,665	
Repairs of buildings,	_		_	~,		•	24,459	
Repairs of shop, tools and	- mar	- hinaru	-	-	-		5,981	
Boarding cars,		-	,	-		-		
Doarding cars,	-	-	•	•		-	410	<u>ย</u> เ
Total,	-	-	-	-		-	\$342,639	62
CLASS 2.—M	[ainte	nance (	of Mo	tive .	Power and C	ars.		
Panaira of leasmatine							<b>6100 984</b>	PY 4
Repairs of locomotives,	•	-	-	•		-	\$100,224	
Repairs of passenger cars,	-	-	_	-		-	48,114	ďĐ

General expenses, including taxes,

Total operating expenses and taxes,

211,643 85

12.67

100.00 \$1,670,933 82

Operating expenses and taxes per mile of road, _ \$4,595 9	0
Operating expenses and taxes per train mile run, for trains earning revenue (2,066,698 miles), _ 0 8 Proportion of operating expenses and taxes for	1
Michigan: Main line,	2
Total proportion of expenses for Michigan,	\$1,670,933 82
Percentage of expenses to earnings, 68.66  Net earnings per mile of road, 5  Net earnings per train mile, 5  3	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Monroe to Ludington, December 1st, 1874.

	MAIN	LIN	E.			Miles, 10	Oths.	Miles. 1	100ths.
In Michigan: From Monroe to Ludington,		-	-	-	-	253		2211000	
Total length completed,	-	-	-	-	-	-	-	253	34
	BRAI	NCHE:	S.						
Flint River, from Flint River St. Clair, from Saginaw City						19	51		
inaw,	_	_		_	٠.	4	65		
Bay City, from East Saginaw	to Ba	v Cit	V.			12	68		
East Saginaw & Mt. Pleasant, Pleasant, Saginaw & Clare Co., from C	from	Col	eman	-	1 t. - -	14 32			
Total length of branches ov	ned b	v Co	mpan	٧.	_	_	_	83	70
Total length of branches owned gan, Total length of road belonging Total length of road belonging Michigan, Aggregate length in Michigan of tracks not above enumerated, Aggregate length of tracks in this Company, computed as si	to thing to siding Michingle to	ompa is Co this - gs, sp - igan	my in mpan Comp urs an	Mic y, oany id oth	in - ne <b>r</b>	83 - 337 214 7 551	04	337	
Gauge of track, 4 feet 81 inches									

## Proprietary or Leased Roads Operated by this Company.

Name, description, and le	math of	f each:			T	otal Mil	es. I	n <b>M</b> ich	igan.
Manistee R. R., Manistee R. R. sidings,	-		- -	-	-	26 9	53 <b>4</b> 6	26	53
Total,	-		-	` -	-	35	99		
Total miles operated by the	e Com	pany,	-	-	-	363	57	363	57
Number o	of Bridg	jes and T	estles	in Mi	ichiga	n.			
Wooden bridges, Howe tru	88, No.							2,6	0271
Iron bridges, number of,			grega						338
Combination bridges, num			grege					(	685
*Wooden trestles, number	of,	85; ag	grega	te len	gth, f	eet,		13,	569
Total,	-	_ 115;	-	-	-	•		16,	569 <del>]</del>

## Draw Bridges in Michigan.

. How many on your line?

One bridge, two draw spans.

Where located, when built, and length of draw span:

East Saginaw.

Built originally 1867, rebuilt 1876.

One span, 170; one span, 145.

Character of structure:

Howe truss.

Material of which constructed:

Ward.

Height above water, and depth of water under bridge:

Fifteen feet.

How swung, by engine or hand power?

Hand.

Approaches, straight or curved?

Curve west side of river.

Do you require all trains to come to full stop before crossing draw, and how are they signaled?

All come to a stop. Signaled by hand.

#### Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? L. S. & M. S. R. R., at Carlton.

Wabash, St. L. & Pac. R. R., at Romulus.

Michigan Central R. R. at Wayne, East Saginaw, Saginaw City Junction, Saginaw City, Bay City, and Otter Lake.

Detroit, Lansing & Northern R. R., at Plymouth.

Grand Trunk Air Line R. R., at Wixom.

<sup>\*</sup> Total number exclusively trestle, 58. 4,963 \ Total number trestle connecting with truss bridge, 27. 8,636 \

Detroit, Grand Chicago & Carand Rapi Lake Count Manistee & What railroad and where? None. At what crossi Michigan Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand Carand	Frand Lee & 1 L. & O ds & 1 Ly R. 1 Luthe s cross lngs al entral	Trun Hope adilla Indian R., at er R. s your re int R. R.	k R. R. R. C. R. R. R. Bran R., a road	R., at A., at A., at R., at ch. t East l either ginaw	Flin Clare Clare Reed Laker ove	t	nder :	your <sub>i</sub>	_	
Union Swite	ch & S	Signal	Com	ipany'	s		Lia Q	<b></b>		440
Number of cr Number of cr									at	442
which there Number of cre	are g	ates o	r flag	gmen,	-		-	-	-	14
signals, _	_	_•	-		-	_	-	_	-	None.
Number of cro 2; under, 7		s of h	igh w	ays ov	er or 1	ınder	railro	ad (o	ver,	9
Number of hi	ghway	brid	ges, l	ess th	an 18	feet a	bove	track	, -	Yes.
Have safety gu Are your frogs 174, Session Yes.	and ; Laws	guard of 18	rails							2000
How are they Blocked wit			foot	guard	•					
			foot		lation	3.				
	h the	Hart		S		<b>3.</b> - -	-	-	-	93 93
Blocked wit	h the	Hart		Si line,		- -	-		-	
Blocked wit  Number of sta  Same in Mich	h the ations igan,	Hart on w	hole ] -	Si line, - En	tation - - nploye	- - is.	- - - - - -	- -	- -	
Number of sta Same in Mich	h the	on w	hole l	Sine, - En	tation - - nploye	- - is.	- - roads	- - opers	- - sted -	
Blocked wit  Number of sta  Same in Mich	h the ations igan,	on w	hole l	Sine, - En	tation - - nploye	- - is.	- roads - -	- - opers - -	- - sted - -	93
Number of sta Same in Mich	h the ations igan, rsons r, incl gan,	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	- - roads - -	- - opera - -	- - sted - -	93 1,950
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen,	h the ations igan, rsons r, incl gan,	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	- - roads - -	- - opera - -	- - sted - -	1,950 1,950 Number. 18
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen,	h the ations igan, rsons r, incl gan,	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	- - roads - - -	opera	- - sted - - -	1,950 1,950 Number. 18 140
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen, Conductors,	h the ations igan, rsons v, incl gan, emplo	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	- - roads - - -	- - opera - - -	- - - - - -	1,950 1,950 Number. 18 140 79
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen, Conductors, Engineers,	h the ations igan, rsons r, incl gan,	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	- - roads - - -	opera - -	- sted - - -	1,950 1,950 Number. 18 140 79 91
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen, Conductors, Engineers, Firemen,	h the ations igan, rsons v, incl gan, emplo	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	-   - - - -	- - opers - - -	- - - - - - - -	1,950 1,950 Number. 18 140 79
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen, Conductors, Engineers, Firemen, Laborers, Shopmen,	h the ations igan, rsons v, incl gan, emplo	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	-   - - - -	- - opera - - -	- - - - - - -	1,950 1,950 Number. 18 140 79 91 92 665 370
Number of sta Same in Michi Number of pe by Company Same in Michi Classify your of Baggagemen, Brakemen, Conductors, Engineers, Firemen, Laborers,	h the ations igan, rsons v, incl gan, emplo	on w	hole l	En employials,	ation - - nploye yed o	- - is. n all 1	-   - - - - - -	- - opera - - - - -	-      	1,950 1,950 Number. 18 140 79 91 92 665

## REPAIRS AND RENEWALS.

## Fencing in Michigan.

How many miles of Give the number of sides of your trace needed:	of miles	requi	ired t	to cor	- nplete coun	fend ties i	ce bo	oth ich	541.15
Clare county,									40.00
Isabella county,	-	-	-	-	-	-	•	-	9.00
Mason county,		-	-	-	-	-	-	-	20.00
Lake county		-	•	-	-	-	-	-	10.00
Lake county, _ Manistee county,	-	-	-	-	-	-	-	•	7.37
		<del>-</del>	-	-	-	•	-	-	
Osceola county,	- '	-	-	-	-	-	-	-	2.50
Total miles,	-	-	-	-	-	-	-	-	88.87
		Road	Bed	and T	rack.				
Number of track se	ections i	n Mi	chiga	n.	_	_	_	_	77
Average length of					_	_	_	_	5
Average number of				on ga	nø.	_	_	_	4
Number of new tie						A VAS	r.	_	195,606
Number of new tie						- ,	-,	-	195,606
Average number of						-	•	-	524
New rails put in tra		b Por		01 10	wa,	•	-	-	0.2
Iron [tons —],									None.
Steel [tons, 1,988	2.70.lh r	·ail 1	217	56-lh	raill	mil	- 00	-	31.83
Total miles of track	z laid wi	th no	,~II	00-10. Ia	1011]	,	00,	-	31.83
Total miles of fract	ż testa At	ит по	M 101	,,	-	-	-	-	91.60
•		Brid	lges an	nd Cri	lverts.				
Amount of trestle	work rep	placed	l wit	h eart	h du	ring	the y	ear	
_ (linear feet), _	. <b>-</b>	-		-	-	-	-	-	24
Timber culverts re	place i di	aring	the y	ær,	-	-	-	-	14
With stone,—nu			•	-	-	-	-	-	. 4
With iron pipe,-	–numbei	r,	-	-	-	-	-	-	10
Timber used in cul-	verts and	l catt	le gu	ards,-	–feet,		-	_	90,604
New bridges built of	luring th	10 уе	ar,	-	_	-		-	12 .
Used 265,354 fee	t, B. M.	of ti	mber						

1			1
Piles	Wood	November	2
Bents	Wood	November	i I
Bents	Wuod	November	71
Bents	Wood	November	
Girder	Iron	July	170
Piles	Wood	July	. 100
Piles	Wood	September	54
Piles	Wood	August	. 50
Piles	Wood	February	55
Piles (truss, 46 ft., 7)	Wood	December	568
Piles	Wood	December	•
Piles (truss, 86 ft., 7)	Wood	January	78
	Bents Bents Bents Girder Piles Piles Piles Piles Piles Piles Piles Piles Piles Piles	Bents         Wood           Bents         Wuod           Bents         Wood           Girder         Iron           Piles         Wood           Piles         Wood           Piles         Wood           Piles (truss, 46 ft., 7)         Wood           Piles         Wood	Bents         Wood         November           Bents         Wood         November           Bents         Wood         November           Bents         Wood         November           Girder         Iron         July           Piles         Wood         September           Piles         Wood         August           Piles         Wood         February           Piles (truss, 46 ft., 7)         Wood         December           Piles         Wood         December

## ROLLING STOCK.

		Number.	Present Estimated Value.		
Number of locomotives of more than 30 tons we exclusive of tender,  Number of locomotives of 20 to 30 tons we	_	70	<b>\$4</b> 33,500	00	
exclusive of tender,	- -	10	45,000	00	
Total,	-	80	\$478,500	00	
Number of passenger cars—12-wheel, inclu	ıding				
official cars,	-	2	16,800	00	
Number of passenger cars—8-wheel, inclu	ding				
official cars,	-	64	226,860		
Number of express and baggage cars, _	-	17	36,955	00	
Number of box freight cars,	-	1,497	689,723	73	
Number of stock cars,	_	8	2,280	00	
Number of platform cars,	_	1,334	494,346	36	
Number of conductors' way cars,	_	. 6	1,710	00	
Other cars as follows:			,		
Cabin, 32; hand cars. 106; lorrie, 82; boar	ding.				
7; tool, 1; pile driver, 1; derrick, 1; ex					
tor, 1; snow plows, 4,	-	235	35,055	00	
Total,	-	2,963	\$1,982,230	09	
Number of locomotives equipped with power by		28			
Number of passenger-train cars equipped power brakes,	- MICH	83			

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse automatic.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?

What pattern or patterns have you adopted for use?

Marks.

Yes.

# MILEAGE, TRAFFIC, ETG.

## TRAIN MILEAGE.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	845,064 1,221,634
Total mileage of trains earning revenue,	٠.	-	-	2,066,698

### Passenger Traffic.

russenger ir	щји	ž•				
	8	Numbers and Quantiti		Miles.		Rate.
Number of through passengers carried,	_	9,531				
Number of local passengers carried,	-	896,931	•			
Total number of passengers carried,	-	906,462	}			
Total passenger mileage, or passengers carrie	ed c	ne mile,	25,39	5,540		
Average distance traveled by each passenger	r,			28		
Average amount received from each passeng			-	-	<b>\$</b> 0	74
Average rate of fare per mile for through ]			-	-		02.326
Average rate of fare per mile for local pass			-	-		02.669
Average rate of fare per mile for all passen	ger	8,	-	-		02.656

## Freight Traffic.

1700gi	1 1 001	,				
Number of tons of through freight ca Number of tons of local freight carrie		, _	101,027 1,678,519			
Total tons of freight carried,	-	•	1,779,546			
Total mileage of through freight, Total mileage of local freight,	- -	-	- - 1	16,547 109,363		
Total freight mileage, or tons car	ried o	ne	mile,	125,911	,247	
Average ton haul for through freight Average ton haul for local freight, Average ton haul for all freight,		-			164 65 71	
Average amount received for each ton Average rate per ton per mile, received Average rate per ton per mile, received Average rate per ton per mile, received	l for t d for l	hro loca	al freight,	ht, - - -	- - -	\$0 90.3 00.717 01.361 01.217
1.0						

		Freight	For	warde	l at 1	Iichiga	ın Sta	tions.		Forwarded, Tons.
Grain, .	-	-	_	-		_	-	_		27,434
Flour, -	_	_	_	_	_	-	_	_		10,917
Provisions	(beef, )	oork, lai	rd, e	tc.),	_	_	-	_		43,608
Animals,	` -	•	_	•	_	_	_	-		7,476
Lumber and	lforest	produc	ts,	_	-	_	_	-		1,256,313
Coal,	_	• .	-	-	-	-	-			16,162
Plaster, lim	e and	cement,	_	-	_	_	-			557
Salt, .	-		_	-	_	_	_	_		205,907
Stone, briel	and a	and,	-	_	-	-	-	_		18,666
Manufactur			ipp	ed froi	n poi	nt of	produ	ction		17,471
Merchandis	e and c	ther art	icle	s not e	nume	rated	above	Э,	´	143,610
•								•		
Total f	orward	led,	_	_	_	_	_	_		1,748,121
• .	To	mnage o	f A1	ticles :	Trans	ported-	—Enti	re Ro	Tons.	Per Cent.
Grain,	-	-	-	-	-	-	-	-	35,359	1.88
Flour,						-	-	-	52,787	2.80
Provisions	beef, p	ork, lar	d, e	tc.),	-	-	-	-	52,994	2.82
Animals,	<u>.</u>		-	-	-	-	-	-	8,926	0 48
Lumber and	l forest	produc	ts,	-	-	-	•	-	1,256,429	66.80
Coal, .	-	-	-	-	-	-	-	-	42,213	2.25
Plaster, lim	e and	cement,	-	-	-	-	- '	-	808	0.04
Salt, .	-	-	_	-	_	-	-	_	205,907	10.94
Stone, brick	c and a	and,	-	_	-	-	-	-	18,666	0.99
Manufactur			nipp	ed fro	m poi	nt of	prod	luc-	•	
tion.	· .	_			-	_	-	_	20,116	1.07
Merchandis	e and d	other ar	ticle	s not e	num	erated	abov	θ, _	186,766	9.93

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? American Express Company.

One and one-half first class. Handle their own freight.

Total tons carried,

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles, 361. Western Union Telegraph Company.

1,880,970

100.00

#### TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Car Company, Detroit, Mich., \$1,004.64.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals. for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

F. & P. M., "C. E. L.," Detroit, Mich.,	_	_	_	_	\$124	06
F. & P. M., "G. E. L.," Detroit, Mich.,	_	_	_	_	51	45
N. D. L., "N. C. Co.," St. Albans, Vt.,		_		_	773	93
N. D. L., "C. B. & L. Refrig.," St. Alban			_	_	88	09
Merchants' Despatch, New York City,	_	_	_	_	4.160	34
Union Tank Line, New York City,	_	_	-	_	463	37
Cont. Oil Co, New York City,	-	_	_	_	2	99
Col. & H. Coal and Iron Co., Columbus, Oh	io,	-	_	_	397	92
West Mich. Equipment Co., Muskegon, Mic	h.,	_	_	_	7	10
Amer. Refrig. Trans. Co., St. Louis, Mo.,	<u>.</u>	_	_	_	21	26
Lock Line Tiff Refrig., Buffalo, N. Y.,	_	_	_	_	13	99
Swift Refrig., C. E. Line, Chicago, Ill.,	-	_	_	_	86	02
	_	_	_	_	26	43
	_	_	-	_	1	97
J. Ellsworth & Co., Chicago, Ill.,	_	_	-		4	59
Grossell Chemical Co., Cleveland, Ohio,	_	_	-	_	2	04
Atlanta S. Coal & Lumber Line, Atlanta, G	8.,	-		-	3	48
E. C. Walker, E. & N. S., Detroit, Mich.,		_	_	_	8	32
Armour Refrig. Line, Chicago, Ill.,	-	_	_	-	3	66
Ames Pal. Horse Car Co., Buffalo, N. Y.,	-	-	-	_	10	80
G. H. H. F. Car Line, Louisville, Ky.,	-	-	-	-	1	74
N. M. & Co. Refrig. Line, Chicago, Ill.,	_	-	-			50
Harrison Wagon Co., Grand Rapids, Mich.,		_	2	_		87
J. Cummer & Son, Grand Rapids, Mich.,	-	_	-	-	1	89
Cummer Lum. Co., Grand Rapids, Mich		_	_	_	3	17
Bousfield & Co., B. & Co., Bay City, Mich.,		_	-	-	· 4	80
Burton Stock Car Co., Boston, Mass.,		-	_	-		36
Anglo Amer. Prov. Co., Chicago, Ill.,		_	_	_		68
S. Cupples, Wood Ware Co., Grand Rapids,			-		1	38
Union Iron Co., Detroit, Mich.,	-	•	•	-	267	87
Total,	-	-	-	-	6,535	07

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

February 11. Geo. W. Phillips, brakeman, J. L. & S. crossing, fell from train.

February 21. Jno. Scanlan, switchman, Flint, pulling pin, fell, run over; verdict, accidental.

March 19. Nelson Brewer, brakeman, Attwoods, pinched between logs, died March 21.

May 18. Jos. Hlinak, wiper, East Saginaw, walking on track, struck by engine and killed.

May 28. Frank Hammond, brakeman, New Boston, leg and foot run over, coupling, died June 2.

June 3. Susie Bird, school teacher, Milford, crossing between cars over draw-bars

June 11. Frank Monaghan, trespasser, North Saginaw, intoxicated and lying on track.

July 11. Gus. Anderson, track repairer, Ludington, hurt internally by handle of hand car, died July 17.

August 11. Pat. Corbett, trespasser, Birch Run, sitting between rails on track.

October 5. Clement Rabe, wiper, East Saginaw, walking on track.

October 13. M. Bohosky, switchman, Flint, hanging to side of car and struck by target.

October 18. Joseph Peters, trespasser, Custer, intoxicated and asleep on track.

December 7. Frank Baker, Holly, crossing track in front of engine.

December 21. Orlando Fleming, brakeman, Frost, fell from end of flat car, uncoupling.

#### INJURED.

January 8. Hugh Collins, brakeman, Levington siding, hand badly bruised, coupling; carelessness.

January 11. Grant Dugan, brakeman, Reed City, end of finger broken off,

coupling; carelessness.

February 10. E. E. Funchson and Fred. Deckman, switchmen, and Wm. B. Edwards, yardmaster, Flint, all slightly injured; were on car which climbed the rail and tipped, throwing them off.

February 28. Anton Wesmeroski, Bay City, jumped from coach, intoxi-

cated, arm broken, etc.

March 4. Fred Hill, brakeman, Clio, hand injured, coupling.

March 5. Rufus Darling, brakeman, Northville, fell from engine, shoulder blade broken.

March 6. Guy Abrams, woodsman, Levington siding, getting on train in motion; head cut, etc.

March 8. H. Hammond, brakeman, Lake, getting on log train in motion, leg injured, died March 19.

March 18. Louise Reptka, Midland, on track with suicidal intent, bad scalp wound, etc.

March 22. Geo. W. Furness, brakeman, Lake. lost hand, coupling.

April 4. Wm. Crandell, brakeman, Branch, fell from cars, light leg run over.

April 29. Martin Donohue, brakeman, No. Saginaw, two fingers hurt, coupling.

May 12. Frank Crandell, brakeman, Milford, fell from box car, bruised.

June 28. F. W. Sayer, switchman, East Saginaw, leg hurt, explosion of track torpedo.

June 30. Andrew Bohoskey, switchman, Flint, one finger injured, coupling. July 1. Orlando Fleming, brakeman, Eddy branch, collar bone broken, coupling.

July 2. George Peterson, Indian, Stronach, scalp wound, intoxicated on

track.

July 2. Thos. Haley, trespasser, Midland, right arm dislocated, walking on track.

July 8. Neil Elliott, switchman, East Saginaw, one finger injured, coupling.

July 10. Frank Conger, brakeman, Lake, dislocated shoulder jumping from logs rolling from car.

July 13. Jas. H. Dyer, brakeman, Lake, two toes hurt getting on car in motion.

July 16. Edward McGuire, section hand, No. Saginaw, leg hurt getting on locomotive in motion.

July 20. Bruce Brown, brakeman, Evart, lost hand, coupling. July 25. N. H. Slade, yardman, Bay City, head cut, coupling.

July 31. Tim. McCarty, brakeman, Flint, foot hurt jumping from engine. August 3. Burt Mann, brakeman, New Boston, leg broken, etc., fell from train.

August 29. Wm. Carroll, bridge carpenter, Amber, fracture jaw bone, driving piles.

August 30. Wm. Clark, Manistee Junction, lost an arm getting on moving train, intoxicated.

September 25. Geo. Dunham, farmer, East Saginaw, arm broken, etc., driving across track, died Oct. 3.

October 10. Frank Sayer, switchman, No. Saginaw, foot injured getting on engine.

October 17. Wm. P. Green, conductor, Holly, two fingers hurt, coupling. October 22. Thos. Foster, brakeman, Chase, two fingers hurt, coupling.

October 22. Robert Hardy, brakeman, Harrison Junction, lost foot, fell between cars.

October 29. Milo Clinton, switchman, Houghton Lake branch, hurt in head, fell from hand car.

October 29. Godfrey Bend, switchmen, Houghton Lake branch, collar bone broken, fell from hand car.

October 31. S. Stewart, Flint, head cut trying to get on train in motion. December 11. C. F. Budlo, brakeman, Chase, one finger injured, coupling. December 14. T. C. Carver, brakeman, Midland, one finger injured, coupling.

December 17. P. I. Schafer, switchman, Bay City, two fingers injured, coupling.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others,		
Collisions					2			
Coupling cars		4			18			
Derailments		·····						
Falling from trains		1		1	5			
Frogs						 		
Getting on and off trains		1		1	. 5			
Highway crossings								
Miscellaneous		2			8			
Overhead obstructions								
Trespassers on trains								
Trespassers on tracks		1	5			•		
Total		9	5	2	33			

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,		_	_	-	14
Number of persons injured during the year,		-	-	-	42
Number of casualties purely accidental,	-	-	_	-	10
Number resulting from lack of caution, careles	sness,	or m	iscond	uct,	34
Persons killed or injured while intoxicated,	-	-	-	•	5
Trespassers and tramps killed or injured,		-	-	-	7
Suicides,	-	_	_	_	

## CLASSIFICATION OF EMPLOYÉS.

## KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	4	20	24
Conductors		1	] 1
Engineers			
Firemen		ı 	
Laborers	1	4	.
Shopmen	2		1
Yardmen		2	1
Not classified above	2	6	8
Total	9	33	45

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

H. C. Potter, Vice President, and General Manager, and Gilbert W. Ledlie, Auditor, of the Flint and Pere Marquette Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

HENRY C. POTTER,

Vice President and General Manager.
GILBERT W. LEDLIE,

Auditor.

Subscribed and sworn to before me this 10th day of April, A. D. 1888.

[L. 8.]

JAMES G. HARRIS,

Notary Public.

## ANNUAL REPORT

#### OF THE

# SAGINAW & CLARE COUNTY RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. C. POTTER, East Saginaw. Secretary, E. SAUNDERS, East Saginaw. Treasurer, H. C. POTTER, Fast Saginaw.

## DIRECTORS.

H. C. Potter, East Saginaw, Mich.
W. L. Webber, East Saginaw, Mich.
S. Keeler, East Saginaw, Mich.
W. F. Potter, East Saginaw, Mich.
E. Saunders, East Saginaw, Mich.
Term expires June 7th.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September	4, 18	387.		
Number of stockholders at date of last election,	-	-	-	8
Number of stockholders in Michigan at same date,	-	-	-	8
Amount of full paid stock held in Michigan at same date,	-		-	<b>\$1,035</b>
Date of annual meeting of stockholders,- June 7.				
Fiscal year of Company ends December 31.				
General offices of the Company are located at East Saginaw	, Mic	h.		

## REMARKS.

This road is owned and operated by the Flint & Pere Marquette Railroad Co., and its construction and operating accounts are included with that corporation's report.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter of Par value of shares, Amount paid in on common,	-	cles of 100 (			n, ,035		<b>\$</b> 500,000	00
Total amount paid in, as pe	r boo	ks of	the C	ompa	ny,	-	1,035	00
Paid in per mile of road own pany,—Miles, 32.35,	ned b	y Cor	n- -		<b>\$</b> 32	00		
ANALYSIS	OF I	EBT	ACCO	UNTS	•			
Total amount of stock and debt Stock and debt per mile of road		-	- -	-	-	-	\$1,035 32	00 00

## COST OF ROAD AND EQUIPMENT.

Total cost for Construction and Equipment of Road, and Branches Built by Company.

Included in the report of the Flint & Pere Marquette Railroad Co.

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December, 1887.

## MAIN LINE.

						Miles, 1	10ths.	Miles, 1	l00tha	١.
Length completed in Michigan,	-	-	-	-	-	32	35			
Total length completed,	-	-	-	-	-	-	_	32	35	
Total length of road belonging Total length of road belonging	to i	this Cor to this	npa Cor	ny, npany	- in	-	-	32	35	,
Michigan, 49	•	-	-	-	-	32	35			

Aggregate length of sidings, spurs and other tracks not							Miles, 100ths, Miles, 100ths					
above enumerated, .		-	-	-	-	- 48	-	45	80			
Same in Michigan, Aggregate length of tracks	belongi	ng to	this C	ompa	ny,	45	80					
computed as single track, Same in Michigan,		-	-	-	-	78	- 15	78	15			
Gauge of track, 4 feet 81			_			•••						

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

H. C. Potter, President, of the Saginaw & Clare County Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, H. C. POTTER, *President*. Subscribed and sworn to before me this 10th day of April, A. D. 1888.

JAMES G. HARRIS, Notary Public.

#### ANNUAL REPORT

#### OF THE

# MANISTEE RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. C. POTTER, East Saginaw. Secretary and Treasurer, H. C. POTTER, Jr., East Saginaw.

#### DIRECTORS.

- H. C. Potter, East Saginaw, Mich.
- W. L. WEBBER. East Saginaw, Mich.
- H. C. POTTER, JR., East Saginaw, Mich.
- A. W. NEWTON, East Saginaw, Mich.
- D. EDWARDS, East Saginaw, Mich.

Term expires third Wednesday in May.

## STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—June 19, 1880.	
Number of stockholders at date of last election,	9
Number of stockholders in Michigan at same date,	9
Amount of full paid stock held in Michigan at same date,	\$400,000 00
Date of annual meeting of stockholders,—Third Wednesday in May.	
Fiscal year of Company ends December 81.	
General offices of the Company are located at East Saginaw, Mich.	

#### REMARKS.

This road is owned and operated by the Flint & Pere Marquette R. R. Co., and its operating accounts are included with the reports of that corporation.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 Average price received per share, No. of shares issued, 4,000 Amount paid in on common, \$400,000 00	\$400,000 00
Total amount paid in, as per books of the Company,  Paid in per mile of road owned by Company,— miles, 26.53,	400,000 00

## ANALYSIS OF DEBT ACCOUNTS.

## UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		\$112,428 7
For equipment		
For real estate		
For renewals	•••••••••••••••••••••••••••••••••••••••	
For miscellaneous		
		1
Total made and dale		

## RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	-	None. \$112,423 78
Total debt liabilities,	-	-	-	-		-	-	\$112,423 78
Amount of debt liabilities	per	mile	of ros	vd (26	6. <b>53</b> n	niles),	-	4,237 60
Total amount of stock and Stock and debt per mile of				-	-	-	-	512,423 78 19,314 87

## COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,  Average cost of construction per mile of road (not inc			\$512,423	78
	_	-	19,314	87
Proportion of cost of construction for Michigan,	-	-	512,423	78

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 2, 1882.

MAT:	n lin	E.						
					Miles, 10	Oths.	Miles. 1	OOths,
Length completed in Michigan,	-	-	-	-	26	53		
Total length completed,	-	-	<b>-</b> ·	-	-	-	26	53
Total length of road belonging to th Total length of road belonging to				in	-	-	26	53
Michigan,	-	-		-	26	53		
Aggregate length of sidings, spurs	, and	othe	r tre	cks				
not above enumerated,	-	_	_	-	-	_	9	46
Same in Michigan,	_	_	_	_	9	46		
Aggregate length of tracks belonging	g to t	his C	ompa	nv.				
computed as single track,							35	99
Same in Michigan,	-	-	-	-	35	99	•	
Gauge of track, 4 feet 81 inches.								

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

H. C. Potter, President of the Manistee Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, H. C. POTTER, President.

Subscribed and sworn to before me this 10th day of April, A. D. 1888.

JAMES G. HARRIS,

Notary Public.

### ANNUAL REPORT

#### OF THE

# SAGINAW & MT. PLEASANT RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed April 11, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. L. WEBBER, East Saginaw. Vice President, H. C. POTTER, East Saginaw. Secretary, A. W. NEWTON, East Saginaw. Treasurer, H. C. POTTER, Jr., East Saginaw.

#### DIRECTORS.

H. C. POTTER, East Saginaw, Mich.

W. L. WEBBER, East Saginaw, Mich.

D. EDWARDS, East Saginaw, Mich.

S. KEELER, East Saginaw, Mich.

A. W. NEWTON, East Saginaw, Mich.

H. C. POTTER, Jr., East Saginaw, Mich,

L. C. STORRS, East Saginaw, Mich.

Term expires June 7, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

#### REMARKS.

This road is owned and operated by the Flint and Pere Marquette Railroad Co., and its operating accounts are included with the report of that corporation.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of asset Par value of shares, \$100 00 Amount paid in on common,	ociation, <b>\$44,2</b> 87		<b>\$100,000 00</b>						
Total amount paid in, as per books of the	Company,	_	44,287 06						
Paid in per mile of road owned by Company,—miles, 14.51,	3,052	17							
ANALYSIS OF DEBT ACCOUNTS.									
Total amount of stock and debt, Stock and debt per mile of road, 14.51 miles,		-	44,287 06 3,052 17						

## COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company,
Included with cost of Flint & Pere Marquette Railroad.

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 15, 1879.

	MAIN	LIN	E.			Miles, 10	Otha, Mi	es, 100ths.
Length completed in Michigan,	-	-	-	-	-	14 8		
Total length completed,	-	-	-	-	-	-	-	14 51
Total length of road belonging Total length of road belonging Michigan,					in -	- 14	- 51	14 51
Aggregate length of sidings, spu above enumerated, Same in Michigan,	-	-	-	-	-	- 1	23	1 23
Aggregate length of tracks belo computed as single track, Same in Michigan, Gauge of track 4 feet 8½ inches.	•	- -	- -	- - -	.y, - -	15	- 74	15 74

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

H. C. Potter, Vice President of the Saginaw & Mt. Pleasant Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, H. C. POTTER, Vice President.
Subscribed and sworn to before me this 10th day of April, A. D. 1888.

JAMES G. HARRIS,

Notary Public.

### ANNUAL REPORT

### OF THE

# CINCINNATI, WABASH & MICHIGAN RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed April 12, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE, Cleveland, Ohio.

Vice President, WM. BINGHAM, Cleveland, Ohio.

Secretary, W. S. JONES, Cleveland, Ohio.

Auditor, EDWIN D. WHEELOCK, Elkhart, Ind.

Treasurer, W. S. JONES, Cleveland, Ohio.

General Manager, NORMAN BECKLEY, Elkhart, Ind.

Superintendent, O. W. LAMPORT, Wabash, Ind.

Superintendent of Telegraph, W. A. CAUL, Wabash, Ind.

Cashier, LOUIS B. COOKE, Elkhart, Ind.

General Passenger Agent, EDGAR H. BECKLEY, Elkhart, Ind.

General Freight Agent, DARWIN F. COE, Elkhart, Ind.

Attorney, C. E. COWGILL, Wabash, Ind.

### DIRECTORS.

J. H. Wade, Cleveland, Ohio.
H. B. Payne, Cleveland, Ohio.
WM. BINGHAM, Cleveland, Ohio.
R. E. Mik, Cleveland, Ohio.
C. P. Leland, Cleveland, Ohio.
W. S. Jones, Cleveland, Ohio.
F. W. Pelton, Cleveland, Ohio.
John Newell, Cleveland, Ohio.
Norman Beckley, Elkhart, Ind.
Geo. H. Stayner, New York city.
Henry S. Ives, New York city.
Term expires April, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Reorganization April 14, 1880.	
Number of stockholders at date of last election,	<b>4</b> 0
Number of stockholders in Michigan at same date,	8
Amount of full paid stock held in Michigan at same date, \$4,000	00
Date of annual meeting of stockholders,—Second Wednesday in April.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Elkhart, Ind.	

# GENERAL EXHIBIT.

				D	EBIT.		CREDIT.	
Total income,		- -	-	- <b>\$34</b> 8,	- 596	44	<b>\$</b> 453,585	12
Net income,		-	-	-		_	104,988	68
Interest on unfunded debt,		-	-	<b>\$4</b> 0,	696	76		
Balance applicable to dividend	ds,	-	-	-	-	-	64,291	92
Balance for the year,		<u>-</u>	-	-	-	-	\$64,291	92
Balance last year, Items not included in above as foll	lows	- :	-	-	- •2#	-	247,872	20
Profit and loss,  Balance forward to next year,		-	•		\$37 126	• -		
Dalance forward to next year,		-	-		120			
<b></b>				<b>\$</b> 312,	164	12	\$312,164	12

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter No fixed amount. Par value of shares, No. of shares issued,	-	<b>\$</b> 100 00			
Amount paid in on common,	-		\$2,044,158 76		
Total amount paid in, as ]	per bo	oks of the	Company,	\$2,044,158	76
Paid in per mile of road owned miles, 164.4,	by C	ompany,—	\$12,434 05		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

No funded debt.

### UNFUNDED DEBT.

For what Incurred.	Is th	e sam	e to b	e Funde	d, or Ho	w Liqu	idate	ed.	Amour	ıt.
For construction									\$812,87	
Total unfunded debt		• • • • • • • • • • • • • • • • • • • •					•		\$940,48	7 61
	RE	OAP	ITUL	ATION.						
Total funded debt, Total unfunded debt,	-	-	-	-	- -		-	<b>\$</b> 94	No 40,437	
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$</b> 94	40,447	61
Amount of debt liabilities	per m	ile o	f roa	d,—16	84.4 m	il <b>e</b> s,	-		5,683	93
Total amount of stock and Stock and debt per mile of			-	-	-	<u>.</u> .	-		34,596 18,117	
GEN	ERAL	BAL	ANC	ė she	ET,—I	Or.				
Construction account, Equipment account, Other investments (specify	- - 'in'o' es	- me)	- -	-}	<b>\$</b> 3,22	6,717	30			
Warsaw summer resort, Rushville Extension,		- -	-	-		1,081 2,065		<b>\$</b> 2.96	29,864	15
Cash items: Cash, Due from agents,		-	-	-		5,716 3,019		•	18,735	
Other assets:  Materials and supplies, Debit balances from coviduals,		- 08 &	nd i	ndi-		,996 ),041		•	, 100	00
•	_	=	-	-			_		93,037	
Total,	-	-	-	-	-	-	-	<b>\$</b> 3,3'	71,637	87

# GENERAL BALANCE SHEET,-CR.

Capital stock,	_	-	_	_	_	-	_	\$2,044,158	76:
Benton Harbor subsidies,		_	_	-	-	_	_	74,915	
Unfunded debt:								·	
Notes payable,	_	-	_		<b>\$8</b> :	12,379	29		
Vouchers and accounts	_	_	_	-	12	8,058	32		
	, -	-	_	-				940,437	61
Profit and loss, or income	acco	un <b>ts,</b>	-	-	-	-	-	312,126	
Total,	-	-	-	-	-	-	-	\$3,371,637	87
cos	т оғ	ROAL	) ANI	EQU	IPME	NT.			
Total Cost for Construction	and E	quipm	ent of	Road	and B	ranche	s Bu	ilt by Compa	ny.
Total expended for constr Average cost per mile of	ructio road	n and (not i	equi includ	pmeni ling si	dinge	),—16	- 4.4	<b>\$3,226,717</b>	<b>30</b> ·
miles.	_	٠ ـ	_	_	_	-	_	19,627	30.
Proportion of cost for Mi	chiga	ın, 33.	.4,	-		_	_	655,551	
•	•	-						·	
CHARGES AND C	REDI		PRO IN LI		Y DU	RING '	гне	YEAR.	
Real estate,								<b>42</b> 447	K 1
Real estate, Second track,	-	-	-	-	-	-	-	<b>\$3,447</b>	
Mom buildings	-		-	-	-	-	-	2,860	
New buildings,	-	-	-	-	-	-	-	2,765	
New locomotives,	-	-	-	-	-	-	-	7,900	
New cars,	-		-	-	-	-	-	31,597	26
Total,	-	-	-	-	-	-	-	<b>\$48,570</b>	05
New telegraph line,								2,949	72
Treaty Creek Fill	-	-	-	-	-	-	-	1,901	
Treaty Creek Fill, Benton Harbor dock,	-	-	-	-	-	-	-	2,449	
Denton Harbor dock,	-	-	-	-	-	-	•	#, <del>110</del>	
Total charges to pro	perty	accor	ınt as	abov	е, _	-	-	\$55,870	66
Property sold and credite	d,	-	-	-	-	-	-	No	ne.
Net addition to property	accor	ınt,	-	-	-	-	-	55,870	66
	ANA	Lysis	of E	EARNI	NGS.				
	PA	88 <b>en</b> g	ER E	ARNIN	G8.				
Main line and branches:									
Local fares,	-	-		-	\$1'	71,379	15		
Through fares,	-	-	-	-		3,454			
Total passenger fares	2.	_	_		\$17	74,834	11		

1887.] CINCI	NNATI,	WAE	BASH	& MIC	ADIHC	N RAILWA	A CC	), 8	397
Express and bag	gage,	-	-	-	-	\$4,676			
Mails,	-	-	-	-	-	10,700	88		
Total passenge	earn	ings,	-	-	-		-	<b>\$</b> 190 <b>,2</b> 11	04
Proportion for A		n,	-	-	•	\$38,643			
Per train mile, Per mile of road		-	-	•	-		71		
Per mile of road	٠, -	•	-	-	-	1,157	00		
		FR	RIGHT	r RAR	NINGS	_			•
Main line and bran						-			
Local traffic,		-	-	-	-	\$211,867			
Through traffic,	-	-	-	-	-	47,179	<b>4</b> 8		
Total traffic,	-	-	-	-	-	\$259,046	87		
Other sources, frei	ght dej	partm	ent,	-	-	4,327	21		
Total freight	earning	ζ <b>8</b> ,	-	-	-		-	\$263,374	08
Proportion for Mic	chigan,	-	-	-	-	<b>\$53,507</b>	82		
Per train mile,	-	-	-	•	-	_	28		
Per mile of road,	-	-	-	-	-	1,602	03		
Total transpor	tation	earni	ngs,	-	-		-	<b>\$</b> 453,585	12
Transportation es Transportation es	rnings rnings	per per	mile train	of ro mile	ad,	<b>\$2,75</b> 9 0	03 95.9		
Total earnings	from	operai	tion o	f road	ì,		-	<b>\$453,585</b>	12
Total earnings per	mile o	f rose	đ.			\$2,759	03		
Total earnings per	train	mile.	-, -	•	-		95.9		
Proportion of taxe	ble ear	rnings	for	Michi	gan,	92,151	73		
Total income	from a	ll sou	rces,	-	-		-	\$453,585	12
Proportion of inco	me for	Mich	igan,	-	-		-	92,151	73
		ANAI	RISY	OF E	XP <b>E</b> NS	ES.			
C	LASS 1	-Mair	itenan	ce of	Way a	nd Building	18.		
Repairs of roadwa	v and t	rack.	_	_	_			\$53,107	56
Renewals of rails,	_	- -	•	-	-		-	38,722	
Renewals of ties,	-		-	_	-		-	13,966	95
Repairs of bridges						guards,	-	8,412	
Repairs of fences,		rossin	igs, ar	nd sig	ns,		•	3,783	
Repairs of buildin	gs,	-	-	-	-		-	6,186	89
Total, -	-	-		-	-		-	\$124,179	73

# OLASS 2.—Maintenance of Motive Power and Cars.

Repairs of 1	ocomotives,	_		-	-	-			<b>\$</b> 19,991 <b>41</b> <sup>8</sup>
	assenger cars,	-	_	-	_	-	-	_	11,061 21
Repairs of f	reight cars,	_	-	-	-	-	-	-	11,973 12 <sup>.</sup>
/ -						•		*	
Total,		-	-	-	-	-	-	-	<b>\$43,025 74</b>

# CLASS 3.—Conducting Transportation.

Fuel for locomoti	ves, _	_	-	_	-	-	-	_	\$43,559	23
Water supply,	•	-	_	_	_	-	-	-	1,016	95
Oil and waste, _		_	-	-	-	-	-	-	2,615	15
Locomotive servi	се, _	_	-	-	•	-	-	-	28,519	91
Passenger train s		-	-	-	-	-	-	-	7,432	91
Passenger train s		-	•	-	-	-	-	-	1,050	
Freight train serv		-	-	-	-	-	_	_	15,942	29
Freight train sup		_	-	-	-	-	-	-	274	60
Telegraph expens	es (main	itens	nce an	d ope	eratin	g),	· _	-	6,353	99
Damage and loss				age,	_	-	-	-	363	39
Damages to prope		cati	le,	-	-	-	-	-	487	03
Personal injuries		-	-	-	-	-	-	-	30	00
Agents and statio		, <u> </u>	-	-	-		-	-	20,522	78
Station supplies,	-	-	-	-	-	-	-	-	461	<b>99</b> ,
Total.		_	_	_	_	_		_	\$128,630	32

# CLASS 4.—General Expenses.

Salaries of the	gene	ral o	fficers	of th	ie Co	mpan	у,	_	_	\$14,452	83
Salaries of cler	ks in	gen	eral o	ffices,	-	-	_	_	-	8,996	62:
Law expenses,		_	_	•	-	-	-	-	-	3,285	21
Stationery and	print	ing,	-	_	-	_	-	-	-	3,940	<b>54</b>
Outside agencie	es and	l ad	vertisi	ng,	-	_	-	_	-	4,171	68.
Contingencies,	-	_	٠ ـ	-	-	_	-	-	-	3,174	61
Taxes,	-	-	-	-	-	-	-	-	-	14,739	16.
Total.	_	_	_	_	_	_	_	_	_	\$52,760	65.

# RECAPITULATION OF EXPENSES.

			Per Cent Of Expenses.	i	
Maintenance of way and buildings,	_	-	35.65	\$124,179	73:
Maintenance of motive power and cars,	-	•	12.34	43,025	74.
Conducting transportation,	-	-	36.89	128,630	32
General expenses, including taxes,	-	-	15.12	52,760	65
Total operating expenses and taxes,	-	-	100.00	\$348,596	44

Operating expenses and taxes poor trains earning revenue, 47 Proportion of operating expension Michigan:	er tra 2,646	sin m miles	ile ru	ın, -	•	41 73. <b>7</b>		
Main line,	-	-	-	-	70,821	69		
Total proportion of expense	s for	Mich	igan,	-	-	_	70,821	69
Percentage of expenses to earning Net earnings per mile of road, Net earnings per train mile,	ngs, - -	-	76. - -		<b>\$</b> 638	61 22.2		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Anderson, Ind., to Goshen, Ind., May 21, 1876. From Goshen, Ind., to Benton Harbor, Mich., November 13, 1882.

### MAIN LINE.

In Michigan:						Miles. 1	OOths.	Miles, 100ths.
From State Line to Ben	ton Harbo	r,	-	-	-	33	<b>4</b> 0	
In Indiana: From State Line to And	lerson,	-	-	-	-	131	00	
Total length complete	ed, -	-	-	-	-	-	-	164 40
Total length of road below Total length of road below					- in	-	-	164 40
Michigan,		-	-		_	<b>3</b> 3	40	
Aggregate length in Mic other tracks not above e	numerated,		-	-	-	6	74	
Aggregate length of trace this Company, compute Gauge of track, 4 feet 82	ed as single			ging -	to -	-	-	40 14
daugo or track, a record								
Matal miles amounted by th	ha Camman					Total Mil		n Michigan. 33 40
Total miles operated by the	по Оошћац	y <b>,</b>	•	•	-	10#	#0	99 <del>1</del> 0
. Number	of Bridges o	ınd Tr	estles 1	in Mi	chig	an.		
Wooden bridges, number Wooden trestles, number			regate regate					60 1,700
Total,	20	<del>-</del> );	-	-	-	-		1,760
	Draw Bridg	es in 1	<b>Lichig</b>	ın.				
How many on your line?		-	-	-	-	-		None.

# Crossings—Railroad and Highway.

What railroads what locality What railroads and where? Over grade: Michigan Cer Michigan Cer At what crossin None. What pattern o	cross you ntral Rai ntral Ra gs are in	ur road ilroad, s ilroad, s	eithe at Nil at Ni	les,—i les,—i	or un main South railin	nder y	our g	grade in	
None. Number of cross	aginga of	highw	ave of	horn	a in t	hia St	ota		42
Number of cro								- at	14
which there a	re gates	or flag	men.		-	-			1
Number of cros	ssings at	which	there	are e	lectri	c or a	utoma	atic	
signals, _			-	-	-	-	-	-	None.
Number of cros		highwa	ys ov	er or u	nder :	railro	10) ba	ær,	_
1; under, 1),	<u> </u>	10		. 1	4		-	-	2
Number of high Number of high	nway bri	idges la	IOOT	800V6	foot o	i, hovo í	- mook	-	None.
Have safety gus									Yes.
Are your frogs	and guar	d rails	block	ed as	requi	red by	Act 1	74.	100
Session Laws		-	-	•		-	_	-	Yes.
How are they to	reated?								
No report.									
			s	tation	8.				
Number of stat	iona on	-hala li	ima						40
Number of stat Same in Michig		MITOTO 1	ine,	-	-	-	-	-	40 8
Same in mionig	ац, -	-	-	-	-	-	-	-	· ·
			$\boldsymbol{E}$	mployé	s.				
Number of pers	IONS PAGI	ılarly e	mnlo	ro bev	all 1	ahan	oners	ted	
by Company,	includir	ng offici	als.	, ou 01		· Ouds	opora	-	349
Same in Michig		-	,		-	-	_	-	29
	, ,								
Classify your en	nployés :	as per f	ollow	ing li	st:				Number.
Baggagemen,									4
Brakemen,		-	-	•	-	-	-	-	18
Conductors,		-	-	-	-	-	-	-	11
Engineers.		_	•	-	-	-	•	-	16
Firemen,		-	_			-	-	-	16
Laborers.		-	-		-	-	-	-	120
Shopmen, - Yardmen,		-	-		-	-	-	-	. 80
Yardmen,		-	-	-	•	-	-	-	3
Others, -		-	-	-	-	-	-	-	81

1887.]	CINCINNA	TI, WABASH &	t MICHIGAN E		. 401
				•	•
		•	in Michigan.	•	,
Give the sides of needed:	number of your track,	encing have you miles required in Michigan, a l.	to complete		66
•		Road Be	d and Track.		
Number o	of track secti	ions in Michiga	n		5 <del>1</del>
		tions (miles),		-	6
Average r	number of m	en in èach secti	on gang,		3
Number o	of new ties p	ut in whole line	during the year	Br,	29,256
Number o	f new ties p	ut in track in l	Michigan, -		1,200
Average r	number of ne	ew ties per mile	of road,		178
	put in track				
	ons, 2,160),		••		.5.4
Total mil	es of track l	aid with new rai	118,		24
		Bridges (	and Culverts.		
Amount	of tweetle we	· ·		o the week	
		<i>Bridges o</i> rk replaced wit		g the year	710
(linear	feet), _	rk replaced wit	th earth during	g the year	
(linear Timber c	feet), ulverts repla	rk replaced wit	h earth during	g the year	15
(linear Timber co With ti	feet), ulverts repla imber,—nun	rk replaced wit	h earth during	g the year	15 15
(linear Timber co With ti	feet), ulverts repla imber,—nun	rk replaced wit	h earth during	g the year	15 15
(linear Timber co With ti New brids	feet), ulverts repla imber,—nun	rk replaced wit	h earth during	g the year	15 15 1
(linear Timber or With ti New brids	feet), - ulverts repla imber,—nun ges built dur cation.	rk replaced with ced during the laber, in Michigring the year,	year,		710 15 15 1 t. in Feet in Length.
(linear Timber or With ti New brid,	feet), - ulverts repla imber,—nun ges built dur cation.	ced during the ber, in Michig ring the year,—	year,	Month Built	t. Feet in Length.
(linear Timber or With ti New brid, Loo	feet), - ulverts repla imber,—nun ges built dun cation.	ced during the ber, in Michig ring the year,—	year, an, number, - Material.	Month Built	t. Feet in Length.
(linear Timber or With ti New brid; Loc New Paris, I	feet), - ulverts repla imber,—nun ges built dun cation.	rk replaced with ced during the aber, in Michigring the year,  Kind.  Howe Truss	Material.  Wood  STOCK.	Month Buil	t. Feet in Length.
(linear Timber or With ti New bridge Local New Paris, 1	feet), - ulverts repla mber,—nun ges built dun cation.  Ind	rk replaced with ceed during the aber, in Michigring the year,—  Kind.  Howe Truss  ROLLING	Material.  Wood  STOCK.	Month Build	t. in Feet in Length.  160  Present Estimated Value.
(linear Timber or With ti New brid;  Loo  New Paris, 1  Total  Number of exclusive	feet), - ulverts repla imber,—nun ges built dun cation.  Ind	rk replaced with ceed during the aber, in Michigring the year,  Kind.  Howe Truss  ROLLING	Material.  Wood  STOCK.  30 tons weight,	Month Buil	t. Feet in Length.  160  Present Estimated Value.
(linear Timber or With ti New brid;  Loc  New Paris, 1  Total  Number of exclusiv Number	feet), - ulverts repla imber,—nun ges built dun cation.  Ind	rk replaced with ceed during the aber, in Michigring the year,—  Kind.  Howe Truss  ROLLING to sof more than a year of 20 to 30	Material.  Wood  STOCK.  30 tons weight,	Month Build	15 15 15 1 1

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					(= 00. 0					
				Number.	Present Estimated Valúe.					
Number of passenger cars—8 official cars,	-wheel,	inclu	din <b>g</b>	13	<b>\$34,</b> 800 00					
Number of express and baggage	cars, i	ncludi	ng 3							
combination cars,		-	-	6	11,500 00					
Number of box freight cars,		-	-	335	129,595 00					
Number of stock cars,		-	-	18	6,300 00					
Number of stock cars, Number of platform cars,		-	-	178	55,000 00					
Number of conductors' way cars		_	_	9	5,400 00					
Other cars as follows,	, - 	-	-	3	2,000 00					
•					·					
Total,		-	-	562	<b>\$</b> 244,595 00					
Number of locomotives equipped Number of passenger-train ca	with p	ower b	rakes,	• 16						
power brakes,		-	-	18						
Number of freight cars equi	pped 🔻	vith p	ower	3.7						
brakes,	; -	.•	-	None.						
What patterns of power brakes have you in use, and number of locomotives and cars with each? All Eames, exxcept 1 locomotive with American steam brake.  Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes. What pattern or patterns have you adopted for use? Blocker.										
MILEA	GE, TR	AFFIC,	ETC.							
2	Train M	ileaģe.			•					
Miles run by passenger trains du	ring th	A WART			267,445					
			-							
Miles run by freight trains during	ig the J	year,	-		205,201					
Total mileage of trains earn	ing rev	enue,	-		472,646					
Pe	assenger	Traffic								
			Numbe		Illes. Rate.					
37 1 441 1			Quanti		•					
Number of through passengers of Number of local passengers carr		-	285,	96 <b>6</b> 528						
Trained of food passongers out	10u, -	-		<del></del>						
Total number of passengers	carried	۔ ا	286,	494	•					
Total passenger mileage, or pass Average distance traveled by each Average amount received from a Average rate of fare per mile for Average rate of fare per mile for Average rate of fare per mile for	ch passe sach pa throug r local p	nger, ssenger h pass passeng	., - engers, gers,	ile, 6,74	6,137 23.5 - \$0 61. - 2.1 - 2.6 - 2.6					

# Freight Traffic.

				<b>U</b>				
Number of tons of through Number of tons of local fi	h frei reight	ght• c carri	arrie ed,	d,	46,48 260,8			
Total tons of freight	carrie	d,	-	-	307,27	79		
Total mileage of through f Total mileage of local freig	reigh ght,	t, -	-	-	· -		7,662,956 2,575,711	
Total freight mileage,	or to	ns car	ried (	one m	ile,	- 2	0,238,668	•
Average ton haul for throu				-	-	-	165	
Average ton haul for local			-		-	-	48.2	
Average ton haul for all from	eight,				-	-	65.9	
Average amount received for	or ea	ch tor	ı hau	d,	<del>.</del> .	. <b>-</b> .		<b>\$</b> 0 8 <b>4.3</b>
Average rate per ton per m	ile, re	eceive	d for	throu	ıgh fre	igh	t,	.615
Average rate per ton per m	ile, r	eceive	d for	local	freigh	t,		1.685
Average rate per ton per m	ile, r	eceive	d for	all fr	eight,	_		1.279
	-							
\ <del>-</del>	_				~			
. Freight	Forw	arded	at M	ichiga	n Stati	o <b>ns</b> .		Forwarded,
								Tons.
Grain,	-	-	-	-	-	-		4,207
Flour,	_	-	-	_	_	-		4,497
Provisions (beef, pork, lard	l. etc.	.).	_	_	_	_		235
Animals,	_	_				_		1,665
Other agricultural products	-	•	•	-	-	-		3,473
Other agricultural product Lumber and forest product	-a	-	•		-	-		49,330
Carl	, s,	-	-	-	-	-		
Coal, Plaster, lime and cement, Salt.	-	-	-	-	-	-		1,153
Plaster, lime and cement,	-	-	-	-	-	-		567
			-	-	-	-		<b>4</b> 08
Railroad iron, iron and ste	el ra	ils,		-	-	-		3,018
Pig and bloom iron.	-	-	-	-	-	_		2,238
Other iron and castings,	-	-	-	-		_		207
Stone, brick and sand,	_		_	_	-	_		16
Manufactures,—articles sh	inned		poi	nt of		tion	1.	693
Merchandise and other arti	cles	not en	nma	rated	ahove.		-,	14,082
MOTORIGINATION BATA OFFICE WITH		100 01		- u • o u	400,0,			
Total forwarded,	-	-	-	-	-	-		85,789
Tonnage of	' Arti	cles Tr	ansn	orted-	-Entire	Ro	ıd.	
								D 0
~ ·							Tons.	
Grain,	-	-	-	-	-	-	37,065	
Flour,		-	-	-	-	-	11,430	
Provisions (beef, pork, lare	i, etc	.),	-	-	-	-	4,037	
Animals,	_	-	-	-	-	-	8,798	
Other agricultural product Lumber and forest product	В,	-	-	-	-	-	6,202	
Lumber and forest product	8,	-	_	-	_	-	118,999	38.727
O1		-	-	-	-	_	33.030	10.749
Plaster, lime and cement,	_	_	-	_	_	_	33,030 4,077	1.326
Salt,	_	-	_	_	_	_	553	
·,		-	-	_	-	-		

	Tons.	Per Cent.
Petroleum,	1,938	.629
Railroad iron, iron and steel rails.	5,760	1.874
Pig and bloom iron,	2,899	.943
Other iron and castings,	2,692	.876
Ores,	20	.006
Stone, brick and sand,	9,267	3.015
Manufactures,—articles shipped from point of produc-		
tion,	19,149	6.242
Merchandise and other articles not enumerated above,	41,364	13. <b>4</b> 66
•		
Total tons carried,	_ 307,280	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

United States Express Company.

Thirteen dollars per day until freight carried at 4 mills per hundred pounds per mile exceeds that amount.

Freight delivered at our depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles of wire belonging to Western Union Telegraph Co., 165.
Miles of wire belonging to this Company, 287.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

KILLED.

None.

INJURED.

None.

STATE OF INDIANA, COUNTY OF ELKHART, Ss.

Norman Beckley, General Manager, and Edwin D. Wheelock, Auditor, of the Cincinnati, Wabash & Michigan Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, NORMAN BECKLEY, Gen'l Manager. EDWIN D. WHEELOCK, Auditor.

Subscribed and sworn to before me this 10th day of April, A. D. 1888.

[L. S.] CHARLES W. FISH,

Commissioner of Deeds for Michigan and Indiana.

### ANNUAL REPORT

### OF THE

# DULUTH, SOUTH SHORE & ATLANTIC RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed May 2, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit, Mich.

Vice President, CALVIN S. BRICE, New York city.

Secretary, L. M. SCHWAN, New York city.

Auditor, E. W. ALLEN, Marquette, Mich.

Treasurer, W. A. C. EWEN, New York city.

General Superintendent, ANDREW WATSON, Marquette, Mich.

Chief Engineer, J. A. LATCHA, Marquette, Mich.

Superintendent of Telegraph, S. B. FLOETER, Marquette, Mich.

General Passenger Agent, E. W. ALLEN, Marquette, Mich.

General Freight Agent, WM. ORR, Marquette, Mich.

General Counsel, W. M. P. HEALEY, Marquette, Mich.

### DIRECTORS.

James McMillan, Detroit.
Calvin S. Brice, New York.
Samuel Thomas, New York.
Columbus R. Cummings, Chicago.
Aug. D. Juilliard, New York.
Geo. I. Seney, New York.
Hugh McMillan, Detroit.

Term expires July 19th, 1888.

### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—March 7t	h, 188	7.			
Number of stockholders at date of last election,	-	-	-	•	56
Number of stockholders in Michigan at same date			-	_	10
Amount of full paid stock held in Michigan at same date,	_	٠.	_	. \$819,10	00 00
Date of annual meeting of stockholders,—July 19th, Marq	uette,	Micl	a.		
Fiscal year of Company ends December 31.					
General offices of the Company are located at Marquette,	Mich.	, and	No.	10 Wall st	reet,
New York					

### REMARKS.

This Company acquired at foreclosure sale the line of railroad and property of the Detroit, Mackinac & Marquette R. R. from St. Ignace, Mich., to Marquette, Mich., and have built and are now operating a line from Soo Junction to Sault Ste. Marie, and are also operating under lease the Marquette, Houghton & Ontonagon R. R., including its subordinate line, the Marquette & Western R. R. This Company has also constructed and completed but not yet put in operation a line of railway from Nestoria, Mich., west to Iron River, Wis.

### GENERAL EXHIBIT.

			DEBIT.		CREDIT.		
Total income,			\$892,822		46	<b>\$1,465,689</b>	23
Net income,	-	-	-		-	<b>\$</b> 572,866	77
Interest on funded debt,—Not incurrent on funded debt,—M. H.			r.				
guaranteed,	_	-	26	5,758	07		
Guaranteed dividend on M. H. &	J	pre-		.,	•		
ferred, 6 per cent per aunum, _			17	2,118	94		
				<u> </u>		437,877	01
Balance applicable to dividends,	-	-	-	-	-	<b>\$134,</b> 989	76
Balance for the year,	-	-	-	-	-	<b>\$</b> 134,989	76
Items not included in above as follow Miscellanous interest,	<b>8</b> :		•	8,800	74		
Balance forward to next year,	-	-		1,189			
			<b>\$</b> 13	4,989	76	<b>\$134,989</b>	76

### ANALYSIS OF CAPITAL STOCK.

Amount authorize						ssociation,	_ \$22,000,000	00
Par value of share	В, _	_	-	<b>\$100</b>	00			
No. of shares issue	d:							
Preferred, .	-	_	-		000	•	•	
Common, .	-	_	_	120	,000			
Amount paid in or	a comm	on,	_	_ `	_	\$12,000,000		
Amount paid in or	a prefer	red,	-	_	_	10,000,000	00	
Amount paid in on preferred, 10,000,000 00  Total amount paid in as per books of the Company, _ \$22,000,000 00								
Paid in per mile pany,—miles,	of ros 197.70,	d own		by C	om- -	\$111,279	00	

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Duluth, South Shore & Atlantic R'y Co. 5 per cent bonds, January 1, 1887	5 per cent	Jan. 1, 1387	New York	\$4,000,000 00
Total funded debt		••••••		\$4,000,000 00

### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		\$15,068 97
For equipment		•••••
For real estate		
For renewals		
For miscellaneous		

### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	_	-	-	-	-	<b>\$4,000,000 00</b> 678,088 19
Total debt liabilities.	_	_		_	_	_	_	\$4,678,088 19

Total,

52

- \$26,809,277 21

# COST OF ROAD AND EQUIPMENT.

Total Cost for Co	mstru	ction a	nd Eg	<sub>Z</sub> uipm	ent of	Road o	ınd Br	anche	e Buil	t by Compo	ıny.
Total expended for construction and equipment, \$26,054,887 90 Average cost per mile of road (not including sidings),—											
197.70 miles, 131,790 00 Proportion of cost for Michigan,											
1 Toportion of c	,080 I	or raic	mi Ra	ш,	-	-	-	-	•	•••••	
CHARG	E8 A1	ND CR	edit	в то	PROP	ERTY	DURI	NG :	THE Y	ZEAR.	
				MAI	N LI	NB.					
Land,	• _	<b>-</b> _	_	-	-	-			-	\$150	
New buildings	and d	locks,	-	-	-	-	-	-	-	42,675 160	
Telegraph,	-	-	•	-	-	-	-	•		100	10
Total,	-	· <b>-</b>	-	-	-	-	-	-	-	\$42,985	32
		LEA8	ED O	R PR	OPRIE	TARY	ROAD	8.			
M. H. & O. R.											
New tracks,			-	-	-		-	,135			
Land, - New building		I dook	-	-	-	•		250 582,			
Mew parrant	gs and	LUUCK	в,	-	-	-	L	,002	<del>74</del>		
Total,	-	-	-	-	-	-	•	-		11,968	84
Total char	ges to	prope	erty a	accou	nt as	above,	-	-	-	\$54,954	16
Property sold a				<u>,-</u>	-	-	-			316	
Net addition to	prop	erty a	ccour	1t,	-	-	-	-	-	54,637	90

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Mails.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
	\$98,465 35	\$68,518 81	\$156,984 16	\$4,426 85	\$6,466 58	\$167,877 00	\$167.877 09	\$0.94.9	\$847.86
Leased or Proprietary Roads. M. H. & O. R. R.	130,226 49	28,878 22	162,599 71	7,043 23	5,120 92	174,768 86	174,763 86	1 21.6	1,884 07
Marquette & Western	6,417 99		6,417 99	250 28	203 06	6,871 88	6,871 38	1 22.3	288 75
Total passenger earnings	\$239,109 83	<b>\$96.892</b> 08	\$8 100'988\$	\$11,719 86	\$11,790 56	\$349,512.28	\$849,512.28	\$1 07.2	86 <b>2003</b>

# FREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources, Fr't Department.	Total.	Proportion I for Michigan.	Per Train Per Mile of Road.	Per Mile of Road.
Main line and branches	\$107,828 67	\$137,171 21	\$2,44,900 78	83,882 60	82 288'8728	<b>35</b> 288'878	\$0 71.6	\$1,256 98
Leased or Proprietary Roads. M., H. & O.	692,661 88	96,883 45	791,048 78	5,961 88	797,006 16	797,005 16	2 00.8	6,084 00
Marquette & Western	38,496 55	4,099 26	42,594 81		42,594 81	18 705'27	1 10.4	1,861 94
Total freight earnings	\$838,985 45	\$239,652 92 \$1,078,638 87	\$1,078,638 87		\$9,844 18 \$1,068,482 56 \$1,088,482 56	\$1,088,482 55	88 13	88,002 28

Total transportation earn Transportation earnings p Transportation earnings p Miscellaneous receipts fro other than for transpor	per mile per train m operat	mile, ing acc	ount,	-	4,085 1		<b>\$1,437,994</b>	83
From telegraph, M., H.			•		127	76		
From rentals of tracks of	tormin	ala M	H & H	Ō	1~1			
		a15, 14.,	п. а	0.	1,750	ΛΛ		
R. R., From other sources:		-	-	-	1, 100	vv		
					0 280			
D., S. S. & A. R'y.,		-	-	-	8,579			
M., H. & O. R. R.,		-	-		8,188			
M. & W. R. R.,		_	-	_	8,589	84		
							27,235	40
Total earnings from	operation	of ros	d,	-	-	-	<b>\$1,465,</b> 230	23
Total earnings per mile o	f road (3	52 mile	a).		<b>\$4,162</b>	58		
Total earnings per train			-,,			32.	1	
Proportion of taxable ear			ran	14	65,230		-	
Total taxable earnings p	nar mila	of road	in	1,1	00,200			
36: 1:	or mire	OI IUak	LIH		4 100	E0		
		-	-		4,162	ขอ		
Income other than from		:					450	~~
Dividend on stock in tr	easury,	-	-	-	-	-	459	00
Total income from al	Laonzooa						<b>Q1</b> ARK RQ0	92
Torst income from 81	1 sources	, -	•	-	-	•	<b>\$</b> 1,465,689	æð
Proportion of income for	Michigan	1, -		-	-	-	1,465,689	23
	ANALYS	IS OF E	EXPEN	ses.				
•								
CLASS 1.	—Mainter	rance of	Way a	nd B	uildings	ł.		•
Repairs of roadway and to	rack						\$148,850	73
	-		-	•	-	•		
		-	-	-	-	-	23,037	
Renewals of ties,	,			, -	÷	-	19,191	
Repairs of bridges, include	nug curv	erts an	a catt	le gu	ards,	-	19,815	
Repairs of fences, road cr	ossings,	and sign	ns,	-	-	-	7,077	
Repairs of buildings,		-	-	-	-	-	43,612	65
Total,		-	-	-	•	-	<b>\$</b> 261,584	41
Ct agg 9	Vainton an		addana 1	Da				
CLASS 2.—	matici ettat	we uj At	onte 1	ower	una Ca	75.	-	
Repairs of locomotives,							040 40E	90
Donaina of marron as a series		-	-	-	-	-	<b>\$48,495</b>	
Repairs of passenger cars,		-	-	-	-	-	14,704	
Repairs of freight cars,		-	-	-	-	-	67,200	56
								-
Total,		-	_	_	-	_	<b>\$130,400</b>	58

# CLASS 3.—Conducting Transportation.

Fuel for locomotives, _	-	-	_	_	-	-	-	\$114,143	73
Water supply,	_	-	_	-	_	_	_	5,736	08
Oil and waste,	_		_	_	_	-	_	10,086	
Locomotive service, .		_	_	-	_	_	-	72,660	84
Passenger train service,	_	_	_	_	_	_	_	17,888	
Passenger train supplies,			_	• -	_		_	2,460	
Mileage of passenger cars		-	_	_	_	•	-	4,540	
Freight train service,	,	-	-	•	•	•	•	58,507	
Freight train supplies,	-	•	-	-	-	-	-	1,431	
Mileage of freight cars,	-	•	•	-	-	-	-	693	
Telegraph expenses (main	tanan	-	one for	- ratina	٠, `	. •	-	13,231	
Damage and loss of freigh	t and	han	ace ace	темпя	,,	-	-	994	
Damages to property and	oottl	nag	Rage,	•	-	-	-	5,8 <del>44</del>	979
	Carri	,	-	-	-	-	-	•	
Personal injuries,	-	-	-	-	-	-	-	3,178	
Agents and station service	,	-	-	-	-	-	-	78,114	
Station supplies,	-	-	-	-	-	-	-	2,874	ĐĐ
en							•		_
Total,	-	-	-	-	-	-	-	<b>\$</b> 392,387	66
	CLASS	4	<del>Iener</del> a	l Expe	18e8.				
				•					
Salaries of the general off	icers o	of the	e com	pany,	_	-	-	<b>\$</b> 16,0 <b>3</b> 3	33
Salaries of clerks in gener			_			_	_	25,149	
Law expenses,	_	_	_	_	_	_	_	7,731	
Insurance,		_	_	_	_		_	4,611	
Stationery and printing,	-	-	-	-	-	•	•	10,571	
Outside agencies and adv	ortigi:	- 10	-	-	-	-	-	1,613	
Contingencies,	01 01911	٠٤,	-	-	-	-	•	11,647	
Taxes,	-	-	-	-	-	-	-	31,091	
10100,	-	-	-	-	-	•	-	01,091	01
Total,							-	\$108,449	01
10mi,	-	-	-	-	-	-	-	<b>\$100,44</b> 5	01
RTC	1A PTT1	TT. A TT	OM O	F EXP	ENG	RR.			
	/4111	DAI	.014 0		<b>M</b> 110.				
						Per ce Exper	nt of		
Maintenance of way and b	mildir	7.07.0				-	.00	<b>\$261,584</b>	41
Maintenance of motive po	mos o	ng ve rke	-	-	-		.00	130,400	
Conducting transfer to the	MAL	nu ce	115,	-	-		.00		
Conducting transportation	U,	-	-	-	-			392,387	
General expenses, includi	ng ta	Les,	-	-	-	1.2	.00	108,449	ΩĽ
m					_	100		<b>***</b>	
Total operating exper	1868 81	nd ta	xes,	-	-	100	.00	<b>\$</b> 892,822	46
Operating expenses and	taxes	per	mile	of					
road,—352 miles,	-	-	-	_		\$2,586	42		
Operating expenses and ta	xes pe	r trai	n mile	e run,		```			
for trains earning reven	ae,—	.108	801 n	iles,			80.50	)	
Proportion of operating ex	pense	s and	taxes	for			-		
Michigan:									
Main line,	_	_	_	_	Я	57,827	78		
	_	_	-	_	•	,			

150 90

46 80

### Leased or Proprietary Roads.

Marquette, Houghton & Ontonagon : Marquette & Western R. R.,		\$494,870 40,124		
Total proportion of expenses for	Michigan,		-	\$892,822 46
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,		1,627 -	63 51.60	,
Date when the road was opened for us From St. Ignace to Marquette, Dec From Sault Ste. Marie to Soo June	ember 19, 1	ts present		ini:
In Michigan:	LINE.		Miles.10	Oths, Miles, 100ths,

Tota	l length	complete	ed,	 •	-	-	-	-	-	197	70

Total length of road belonging to this Company. \_ \_ \_ 197 70

Total length of road belonging to this Company in

Michigan, \_ \_ \_ \_ 197 70

Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, 25 25

Aggregate length of tracks in Michigan belonging to this Company, computed as single track, 222 95

Gauge of track, 4 feet 84 inches.

From St. Ignace to Marquette,

From Sault Ste. Marie to Soo Junction,

Proprietary or Leased Road	ls (	)per	rate	ed by this	C	ompany.			
Name, description, and length of each	h ;					Total Mi	les.	In Mich	ig <b>an.</b>
M., H. & O. R. R.:									
Main line,	-		_	-	_	94	80	94	80
Branches,	_		_	_	_	36	17	36	17
Main line, Branches, Sidings, spurs, and other tracks,	_		_	_	_	42	27	42	27
M. & W. R. R.:									
Main line.	_		_	_		18	11	18	11·
Branches,	_		_	-	_	4	90	4	90
Main line, Branches, Sidings, spurs, and other tracks,	-		-	-	-	8	42	8	42
Total, { M., H. & O.,						204		204	
Total miles operated by the Company			-	•	_	351	68	351	68

# Number of Bridges and Trestles in Michigan.

Wooden bridges, number of, Iron bridges, number of, Irons bridges, number of, Wooden trestles, number of,	<ul> <li>86; aggregate length, feet,</li> <li>4; aggregate length, feet,</li> <li>7; aggregate length, feet,</li> <li>60; aggregate length, feet,</li> </ul>	12,070 275 569 13,124
Total,	157;	26,038

# Draw Bridges in Michigan.

How many on	your line?	_	-	_	_	_	-	_	None.

# Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality C. & N. W. R. R., at Negaunee, 3. C. & N. W. R. R., at Buffalo Branch, 2. C. & N. W. R. R., at Ishpeming, 3. C. & N. W. R. R., at Winthrop Branch, 1. Milwaukee & Northern R. R., at Republic, 1. Milwaukee & Northern R. R., at Champion, 1. M. S., S. M. & A. R. R., at Trout Lake, 1.	
What railroads cross your road either over or under your grade in this Stat	œ,
and where?	
Under grade:	
C. & N. W. R. R., at Negaunee, 1.	
	115
Number of crossings of highways at grade in this State at	
	21
Number of crossings of highways over or under railroad	
(over, 2; under, 11),	13
Number of highway bridges, 18 feet above track,	2
Number of highway bridges, less than 18 feet above track, No.	
	ев.
Are your frogs and guard rails blocked as required by Act 174,	
Session Laws of 1883? Y	es.
Stations.	

### simions.

Number of stations on	whol	le lin	е,	-	-	-	-	-	59
Same in Michigan,		-	-	-	-	-	-	-	59

# Employés.

Number of persons regula	ırly (	employ	ed o	n all 1	roads	opera	ted	
by Company, including	offic	ials,	_	_	_		-	1,349
Same in Michigan,	-	-	-	-	-	-	-	1,349

								_		Number.
Baggagemen,	_	_	_	-	_	-	-	•	-	14
Brakemen,	_	_	_	_	_	_	_	_	_	71
Conductors,	-	_	_	_	_	_	_	_	_	35
Engineers,	-	-	-	_	_	-	_	_	-	50
Firemen,		•	-		-	-	-	-	-	76
Laborers,	-	-	-	•	-	-	-	-	-	617
Chamman	-	-	-	-	-	-	-	-	-	163
Shopmen,	-	-	-	-	-	-	-	-	-	
Yardmen,	-	-	-	-	-	-	-	-	-	56
Others,	-	-	-	-	-	-	-	-	-	267

### REPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of Give the number of sides of your track needed:	mi	les rec	uired	l to c	omple he co	ete fe inties	nce b in wh	ooth nich	52.99
Marquette county,	_	_		_	_	_	_	_	116.50
Baraga county,	_	-	-	-	-	-	_	-	77.00
Houghton county,	_	-		_	_	_	_	_	27.00
Schoolcraft county		_	_	_	-	-	_	-	63.75
Chippewa county,		-	-	_	-	-	_	-	48.00
Mackinac county,	-	-	-	-	-	-	-	-	24.75
Total miles,		_	-	-	-	-	_	-	357.00

# Road Bed and Track.

Number of track sections in Michigan,	-	-		62
Average length of sections (miles),	-		-	5.6
Average number of men in each section gang,	_ ·	-	-	9
Number of new ties put in whole line during the	уеа	r,	-	100,703
Number of new ties put in track in Michigan,	-	•	_	100,703
Average number of new ties per mile of road,	-	_		286
New rails put in track:				
Steel [tons 1,524] miles,	-	_	-	16.2
Total miles of track laid with new rails,		_	-	16.2

# Bridges and Culveris.

Amount of trestle work replaced with earth d	uring	the y	ear	
(linear feet),			-	1,050
Timber culverts replaced during the year,	-	-	-	21
With timber,—number,	_	-	-	21
New bridges built during the year.—number.	_	_	_	None.

ROLLING STOCK.		
	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight,		
exclusive of tender,	63	<b>\$411,750 00</b>
Number of locomotives of 20 to 30 tons weight,	10	44 500 00
exclusive of tender, Number of locomotives of 10 to 20 tons weight,	12	44,500 00
exclusive of tender,	1	2,000 00
Total,	76	\$458,250 00
Number of passenger cars—8-wheel, including		
official cars,	26	81,094 55
Number of express and baggage cars,	4	6,953 80
Number of box freight cars,	78	44,219 50
Number of stock cars,	4	5.940 62
Number of platform cars,	808	
		334,959 25
Number of ore cars,	3,684	705,790 80
Number of conductors' way cars,	8	4,888 46
Other cars as follows:		
Charcoal 24; derrick, 3; snow plow, 1; hand,		
65; larrie, 55,	148	19,290 63
Total,	4,760	<b>\$1,661,387 61</b>
Number of locomotives equipped with power		
brakes,	28	
Number of passenger-train cars equipped with		
power brakes,	30	
Number of freight cars equipped with power		
brakes,	None.	
What patterns of power brakes have you in use, and number of locomotives and cars with each?  Locomotives—Westinghouse air, 13; American s	team, 5; Ba	aldwin, steam,
10. Passenger cars—Westinghouse air, 30.		
Are your freight cars being equipped with automati Act No. 147, Session Laws of 1885? Yes.	c couplers	as required by
<del> </del>	9	
What pattern or patterns have you adopted for use The Wilson coupler.	r	

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	326,019 782,782
Total mileage of trains earning revenue, 53	•	-	-	1,108,801

	Passenger	Traffle	<b>3.</b>		
,			Numbers as Quantities	nd Miles.	Rate.
Number of through passengers Number of local passengers		- -	18,331 293,792	2,498,038 6,710,196	
Total number of passens	gers carrie	d, -	312,123	3	
Total passenger mileage, or p Average distance traveled by	passengers each passe	carried	one mile,		.5
Average amount received fro	m each pas	senger			<b>\$1 04.4</b>
Average rate of fare per mile	for throu	gh pas	sengers, .		03.4
Average rate of fare per mile	for local	passen	gers, _		03.5
Average rate of fare per mile	o for all pa	ssenge	rs,		03.5
Number of tons of through Number of tons of local frei		rried,			
	P	-, -			
Total tons of freight car	rried, -	-	1,327,087	,	
Total mileage of through free Total mileage of local freigh	oight, _	-		24,356,945 36,716,198	
Total freight mileage, or	tons carri	ed one	mile,	61,073,143	
Average ton haul for through				146	
Average ton haul for local fre	eight, -	-		32	
Average ton haul for all frei				46	
Average amount received for			:		82
Average rate per ton per mile	, received	for thr	ough freig	ght,	00.98
Average rate per ton per mile					02.3
Average rate per ton per mile	, received	ior all	freight, -		01.7
Freight Fo	orwarded at	Michig	yan Station	8.	Forwarded, Tons,
Grain,		٠			2,660
Flour,		-			2,774
Provisions (beef, pork, lard, e	etc.), -	-			6,338
Animals,		-			3,381
Other agricultural products,		-			10,389
Lumber and forest products,		-			149,562
Coal,		-			36,922
Plaster, lime and cement,		-			1,062
Salt,	.,	-			265
Railroad iron, iron and steel	ralis, -	-			22,539
Pig and bloom iron,		-			19,711

									Forwarded, Tons.
Other iron and castings,	_	-	_	-	-	-	-	_	6,323
*Ores,	-	_	_	-	_	_	-	_	965,742
Stone, brick and sand,	-	-	-	_	_	-	-	_	15,176
Manufactures,—articles sl	nippe	d fron	n poir	at of p	produ	ction,	-	_	14,869
Merchandise and other ar	ticles	not e	nūme	rated	above	9, _	-		69,474
Total forwarded,	-	-	-	-	-	-	-		1,327,187

# Tonnage of Articles Transported—Entire Road. .

								Tons.	Per Cent.
Grain,	_		_	_	_	_	-	2,660	.2
Flour,	-		-	_		-	_	2,774	.2
Provisions (beef, pork,	lard,	etc	.),	-	_	-	_	6,338	.48
Animals,	_		_	-	-	-	-	3,381	.26
Other agricultural prod	lucts,		-	-	_	_	_	10,389	.78
Lumber and forest prod			_	•	-	-	-	149,562	11.27
Coal,	_			-	_	_	_	36,922	2.78
Plaster, lime and cemer	at, .		~	_	_	-	-	1,062	.08
Salt,			-	-	-	_	-	265	.01
Railroad iron, iron and	steel	rail	ls,	-	-	_	-	22,539	1.70
Pig and bloom iron,			_	-	-	-	_	19,711	1.49
Other iron and castings	, -		-	-		-	-	6,323	.48
*Ores,	_		_	-	_	-	_	965,742	72.77
Stone, brick and sand,			_	-	_	-	_	15,176	1.14
Manufactures,—articles	s ship	ped	fro	m poir	at of	produ	iction	, 14,869	1.12
Merchandise and other								69,474	5.24
Total tons carried,	-		-	_	_	_	_	1,327,187	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company.

Does a general business.

Freight is delivered at depots.

Rate one and one-half first-class freight rates.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

M. H. & O. R. R., miles,

105

<sup>\*</sup> Includes 5.928 tons of copper.

M. & W. B Western U										- -	16 <del>.</del> 261
Total,	_	_	_	-	-	_	-	-	-		382

### TRANSPORTATION COMPANIES.

### Sleeping, Drawing-Room and Palace Car Companies.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

### KILLED.

April 13. Daniel O'Connell, freight conductor, Michigamme; accidental. May 30. Samuel Wilkes, engineer, Ishpeming, train breaking in two; carelessness.

July 5. Peter Hassell, Spurr, lying on track intoxicated; trespasser. September 2. C. D. Formly, orakeman, Seney, fell from train. September 19. Wm. F. Mahan, conductor, Marquette; thrown under cars.

### INJURED.

May 20. Dennis Vadnaer, brakeman, Ishpeming, breaking of draw bar.
June 18. Stephen Jobe, brakeman, Marquette, fell from train in a fit.
July 4. Peter Lapost, Negaunee, head struck a post while train in motion;
carelessness

August 27. Austin Hoban, brakeman, Seney, fell in getting on train. September 10. Andrew Soloman, alias "Crazy John," St. Ignace, run over at crossing; crazy.

September 17. James Scanlon, Negaunee, fell under cars; trespasser. September 22. Asmund Pritz, Marquette, thrown under cars at crossing. October 21. James Watson, brakeman, Humboldt, caught between cars. November 2. John O'Connell, brakeman, Ishpeming, coupling. December 17. Richard Nugent, brakeman, Ishpeming, coupling.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Course of Acoidant		Killed.		Injured.				
Coupling cars	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions		1	;					
Coupling cars					4			
Derailments					·	<b> </b>		
Falling from trains		2			1			
Frogs			¦ 					
Getting on and off trains					1	]		
Highway crossings						1		
Miscellaneous		1		1				
Overhead obstructions								
Trespassers on trains								
Trespassers on tracks		ļ	1		 			
Total		4	1	1	6			

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	-	-	-	5
Number of persons injured during the year,		-			10
Number of casualties purely accidental,	-	-	-	-	11
Number resulting from lack of caution, carel	ersne	88, O	r misc	on-	
duct,	-	-	-	-	2
Persons killed or injured while intoxicated,	-	-	-	_	1
Trespassers and tramps killed or injured,	_	-	-		1
Suicides,	_	-	_	-	_

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	·Injured.	Total.
Baggagemen			
Brakemen	1	6	. 7
Conductors	2		. 8.
Engineers	1		ŀ
Firemen		 	
Laborers			
Shopmen			
Yardmen			
Not classified above	[ <u></u>		
Total	4	6	10

STATE OF NEW YORK, COUNTY OF NEW YORK, ss.

E. W. Allen, Auditor, and W. A. C. Ewen, Treasurer, of the Duluth, South Shore & Atlantic Railway Co., being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

E. W. ALLEN. W. A. C. EWEN.

Subscribed and sworn to before me this 10th day of April, A. D. 1888, by the said W. A. C. Ewen.

WILLIAM H. CLARKSON,

Commissioner for the State of Mich. in New York.

Subscribed and sworn to before me this 24th day of April, A. D. 1888, by said E. W. Allen.

JAMES WALLACE, Notary Public, Marquette Co., Mich.

### ANNUAL REPORT

### OF THE

# MARQUETTE, HOUGHTON & ONTONAGON RAILROAD COMPANY.

For the Fractional Year commencing January 1 and ending February 15, 1887.

[Filed May 2, 1888.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit, Mich. Vice President, CALVIN S, BRICE, New York city. Secretary, L. M. SCHWAN, New York city. Auditor, G. S. HOBBS, Marquette, Mich. Treasurer, W. A. C. EWEN, New York city. General Counsel, Wm. P. HEALEY, Marquette, Mich.

### DIRECTORS.

JAS. MCMILLAN, Detroit.
CALVIN S. BRICE, New York.
SAMUEL THOMAS. New York.
GEO. I. SENRY, New York.
C. R. CUMMINGS, Chicago.
HUGH MCMILLAN, Detroit.
NELSON ROBINSON, New York.
JNO. G. MOORE, New York.
FRANK K. STURGIS, New York.

Term expires July 19, 1888.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 2, 1872. Number of stockholders at date of last election,

65



Number of stockholders in Michigan at same date, 7
Amount of full paid stock held in Michigan at same date, 2369,000 00
Date of annual meeting of stockholders,—Third Thursday in July.
Fiscal year of Company ends December 81.
General offices of the Company are located at Marquette, Mich., and No. 10 Wall street, New York.

### REMARKS.

This property has been leased in perpetuity to the Duluth, South Shore & Atlantic Railway Company, as of February 15th, 1887, the lessor guaranteeing payment of interest on funded debt, besides a dividend on the preferred stock at the rate of six per cent per annum. The lessor assumed current balances, debits and credits. All road and other statistics not here shown are included with the report of the Duluth, South Shore & Atlantic for the remaining portion of the year.

### GENERAL EXHIBIT.

	DEBIT.	CREDIT.	
Total income,	\$46,609	_ <b>\$4</b> 7,530 93	11
Net income,		. \$920	18
Interest on funded debt, for 11 months,	39,793	93	
Balance for 1½ months to February 15th, 1887—deficit,	\$38,873	<del></del> 75	
Balance (profit and loss) last year, Balance to accounts of D., S. S. & A. R'y Co.,	575,387	- 614,260 12	87
•	\$614,260 8	\$614,260	87
			<b>00</b>
Total amount paid in, as per books of the C	ompany,	_ <b>5</b> ,657,126	67

Paid in per mile of road owned by Company,—miles, 136.52,

\$41,438 08

# ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Marquette & Ontonagon bonds, May 25, 1872	8 per cent	June 1, 1892	Boston	\$1,427,500 00
4., H. & O. bonds, March 1, 1878	6 per cent	Mar. 1, 1908	New York.	576,200 00
M., H. & O., May 1, 1882	6 per cent	June 1, 1928	Boston	1,500,000 00
L., H. & O., April 1, 1885	6 per cent	April 1, 1925	Boston	1,400,000 00

### UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated	Amount.
For construction	To be paid in cash	\$35,751 6S
For equipmen		
For real estate		
For renewals	· · · · · · · · · · · · · · · · · · ·	
For miscellaneous		22,527 98
For current balances	To be paid in cash	72,605 36
Total unfunded debt		\$180,881 9

### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	\$4,903,700 00 130,884 92
Total debt liabilities,	-	-	-	-	-	-	-	\$5,034,584 92
Amount of debt liabilities	per 1	nile c	f roa	d,—13	6.52	miles,	-	36,878 00
Total amount of stock and Stock and debt per mile of			-	-	-	-	-	10,691,711 59 78,316 08

# GENERAL BALANCE SHEET,-Dr.

Construction account.	-	-	-	-	•	-		<b>\$9,489,677</b>	
Equipment account, .	-	-	-	-	-	-	-	1,477,233	97
<b>54</b>									

Other investments (specifying some Marquette & Western R. R. some, H. & O., preferred stock, M., H. & O., common stock, M., H. & O. bonds, 6 per cent	tock, - -	-	- - -	\$2,011,346 1,102 37,500 287,000	63 00		<b>56</b>
Cash items:						,,	•
Cash,	-	-	-	181,527			
Bills receivable,	-	-	-	17,179			
Due from agents,	•	•	-	30,784	84		10
Other assets:						229,491	19
Materials and supplies,				\$88,857	43		
Sinking funds,	-	-	-	244,617			
Debit balances from compani	ies sn	d ind		<i>∞</i> <del>11</del> ,011	10		
viduals:	ios an		••				
Tenants,	_	_	_	894	01		
U. S. Mails,	_	_	_	1,923	80		
Marquette & Western R. R. sus	pense	acco	unt,	12,673			
	-	-		44,682			
·						393,648	71
Total,	-	_			_	\$13,927,000	<b>5</b> 0
CENTEDAT	<b>.</b>	MOTE	CTTE	13/10 CI-			
GENERAL	BALA	NCE	SHE	ET,—CR.		•	
Capital stock, Funded debt:	-	-	-		-	<b>\$5,657,126</b>	67
	- cent	- bond	8,		-	•	67
Funded debt: Marquette & Ontonagon, 8 per 1892,	-	-	s, -	<b>\$1,427,5</b> 00		•	67
Funded debt: Marquette & Ontonagon, 8 per 1892, M., H. & O. 6 per cent bonds,	_ 1908	<b>-</b>	- 8, -	576,200	00	•	67
Funded debt: Marquette & Ontonagon, 8 per 1892, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,	1908, 1923,	<b>-</b>	-	576,200 1,500,000	00 00	•	67
Funded debt: Marquette & Ontonagon, 8 per 1892, M., H. & O. 6 per cent bonds,	1908, 1923,	<b>-</b>	-	576,200	00 00	·	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,	1908, 1923,	<b>-</b>	- - -	576,200 1,500,000	00 00	•	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, Unfunded debt:	1908, 1923,	<b>-</b>	- - -	576,200 1,500,000 1,400,000	00 00 00	·	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, Infunded debt: Interest unpaid,	1908, 1923,	<b>-</b>	- - -	\$22,527	00 00 00 	4,903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, Vouchers and accounts,	1908, 1923, 1925,	<b>-</b>	- - -	576,200 1,500,000 1,400,000	00 00 00 	4,903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows):	1908, 1923, 1925,	<b>-</b>	- - -	\$76,200 1,500,000 1,400,000 \$22,527 33,628	93 37	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds,  M., H. & O. 6 per cent bonds,  M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.	1908, 1923, 1925,	<b>-</b>	- - -	\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945	93 37	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts,	1908, 1923, 1925,	- - - -		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228	93 37 06 67	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts,  Cleveland Iron Mining Co.,	1908, 1923, 1925,	<b>-</b>	- - -	\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751	93 37 06 67 63	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts,  Cleveland Iron Mining Co., L'Anse fire suspense account,	1908, 1923, 1925,	-		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228	93 37 06 67 63	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts, Cleveland Iron Mining Co., L'Anse fire suspense account, Land, proceeds of all sales, roy	1908, 1923, 1925,	-		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751 5,803	93 37 06 67 63 26	<b>4,</b> 903,700	
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts,  Cleveland Iron Mining Co., L'Anse fire suspense account,	1908, 1923, 1925,	-		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751	93 37 06 67 63 26	<b>4,903,700</b>	00
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts, Cleveland Iron Mining Co., L'Anse fire suspense account, Land, proceeds of all sales, roy	1908, 1923, 1925,	-		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751 5,803	93 37 06 67 63 26	<b>4,</b> 903,700	00
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts, Cleveland Iron Mining Co., L'Anse fire suspense account, Land, proceeds of all sales, roy expenses,	1908, 1923, 1925,	-		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751 5,803	93 37 06 67 63 26	4,903,700 	71 12
Funded debt:  Marquette & Ontonagon, 8 per 1892,  M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds, M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts, Other liabilities(list as follows): Labor.  Traffic accounts, Cleveland Iron Mining Co., L'Anse fire suspense account, Land, proceeds of all sales, roy expenses,  Profit and loss or income account	1908, 1923, 1925,	less		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751 5,803 2,659,901	93 37 06 67 63 26	4,903,700 2,790,786 575,387 *13,927,000	71 12
Funded debt:  Marquette & Ontonagon, 8 per  1892,  M., H. & O. 6 per cent bonds,  M., H. & O. 6 per cent bonds,  M., H. & O. 6 per cent bonds,  Unfunded debt: Interest unpaid, Vouchers and accounts,  Other liabilities(list as follows): Labor.  Traffic accounts,  Cleveland Iron Mining Co., L'Anse fire suspense account, Land, proceeds of all sales, roy expenses,  Profit and loss or income account  Total,	1908, 1923, 1925,	- - - , less - - -		\$76,200 1,500,000 1,400,000 \$22,527 33,628 24,945 8,228 35,751 5,803 2,659,901	93 37 06 67 63 26	4,903,700 2,790,786 575,387 *13,927,000	71 12 50

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Maile.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
	99,787 20	\$1,875 39	811,612 59	29 0.00	18 1E72	\$13,018 47	\$18,013 47	78.9	88 85
Leased of Fromeday today. Marquette & Western R. R.	TT 189		77 789	<b>25</b>	<b>8</b>	47 130	25 24	80.9	80 18
Total passenger earnings	\$10,274 97	81,875 89	\$13,150 36	\$757 83	87.9078	\$18,664 91	\$18,664 91	<b>8</b> 0 78	25 758

# FREIGHT BARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$16,088 34	\$12,600 49	\$50,787 88	\$8 787,082	\$80,787.88	tu 11.1	90 933
Leased of L'oppuedry koads. Marquette & Western R. R.	11 128	35	1,438 38	1,438 88	1,48 38	8 04.1	68 76
Total freight earnings	\$18,926 05	\$18,296 11	\$68,281 16	\$1 125,282	91 162,253	\$118.4	<b>95006</b> 55

ther than for transportation, as follows: From telegraph,—M., H. & O. R. R.,	Total transport Transportation Transportation Miscellaneous r	earnings pearnings pearnings pearnings fro	per mil per trai m oper	n mile ating a	, ccou	- nt,	-	\$294 1	14 00.4	\$45,886	07
## H. & O. R. R.,	From telegraph	ı,—M., H.	& O. H	R. R.,	-	_		30	32		
M., H. & O. R. R., 527 60 M. & W. R. R., 836 12  Total, 1,644 04  Total earnings from operation of road, \$47,530 11  Total earnings per mile of road, \$304 68  Total earnings per train mile, 1 04  Proportion of taxable earnings for Michigan, 47,530 11  Total taxable earnings per mile of road in Michigan, 304 68  Total income from all sources, \$47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$5,970 77  Renewals of ties, 1 17  Repairs of bridges, including culverts and cattle guards, 483 89  Repairs of fences, road crossings, and signs, 204 60  Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 1,326 14  Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 8.—Conducting Transportation.	H. & O. R.	. R., .				-		250	00		
M. & W. R. R.   836 12								527	60		
Total, 1,644 04  Total earnings from operation of road, \$304 68 Total earnings per mile of road, 104 Proportion of taxable earnings for Michigan, 104 Proportion of taxable earnings per mile of road in Michigan, 304 68  Total income from all sources, 304 68  Total income from all sources, 304 68  Total income for Michigan, 47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$5,970 77 Renewals of ties, 117  Repairs of bridges, including culverts and cattle guards, 483 89 Repairs of fences, road crossings, and signs, 204 60 Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives, \$4,197 95 Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 3.—Conducting Transportation.  Fuel for locomotives, \$4,393 00 Water supply, \$666 37	M. & W. R.	R., .	-		-	-					
Total earnings from operation of road, \$304 68 Total earnings per mile of road, \$304 68 Total earnings per train mile, 1 04 Proportion of taxable earnings for Michigan, 47,530 11 Total taxable earnings per mile of road in Michigan, 304 68  Total income from all sources, \$47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$5,970 77 Renewals of ties, 117  Repairs of bridges, including culverts and cattle guards, 483 89 Repairs of fences, road crossings, and signs, 204 60 Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 1,326 14 Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 8.—Conducting Transportation.				•							
Total earnings per mile of road, \$304 68 Total earnings per train mile, 1 04 Proportion of taxable earnings for Michigan, 47,530 11 Total taxable earnings per mile of road in Michigan, 304 68  Total income from all sources, \$47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of road way and track, \$5,970 77 Renewals of ties, 1 17  Repairs of bridges, including culverts and cattle guards, 483 89 Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 1,326 14 Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 8.—Conducting Transportation.  Fuel for locomotives, 44,393 00 Water supply, 666 87	Total,		-		-	-	-	-		1,644 	04
Total earnings per train mile,	Total earn	ings from	operati	on of r	oad,	-	-	-	-	\$47,530	11
Proportion of taxable earnings for Michigan,						-					
Total taxable earnings per mile of road in Michigan, 304 68  Total income from all sources, \$47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$5,970 77 Renewals of ties, 117  Repairs of bridges, including culverts and cattle guards, 483 89 Repairs of fences, road crossings, and signs, 204 60 Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of passenger cars, 1,326 14 Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 8.—Conducting Transportation.  Fuel for locomotives, 44,393 00 Water supply, 666 87	Total earnings	per train i	mile,		1	-			-		
Michigan,       304 68         Total income from all sources,       \$47,530 11         Proportion of income for Michigan,       47,530 11         ANALYSIS OF EXPENSES.         CLASS 1.—Maintenance of Way and Buildings.         Repairs of roadway and track,       \$5,970 77         Renewals of ties,       1 17         Repairs of bridges, including culverts and cattle guards,       483 89         Repairs of buildings,       204 60         Repairs of buildings,       3,705 47         Total,       \$10,365 90         CLASS 2.—Maintenance of Motive Power and Cars.         Repairs of locomotives,       \$4,197 95         Repairs of freight cars,       1,326 14         Total,       \$12,809 54         CLASS 8.—Conducting Transportation.         Fuel for locomotives,       \$4,393 00         Water supply,       666 37	Total taxable	axable ear aarnings n	nings i	or Mic	niga:	n, in		47,530	11		
Total income from all sources, \$47,530 11  Proportion of income for Michigan, 47,530 11  ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of roadway and track, \$5,970 77 Renewals of ties, 117  Repairs of bridges, including culverts and cattle guards, 483 89 Repairs of fences, road crossings, and signs, 204 60 Repairs of buildings, 3,705 47  Total, \$10,365 90  CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives, \$4,197 95 Repairs of freight cars, 7,285 45  Total, \$12,809 54  CLASS 8.—Conducting Transportation.  Fuel for locomotives, \$4,393 00 Water supply, 666 37				8 OI 10	valu	ш		304	68		
ANALYSIS OF EXPENSES.   Class 1.—Maintenance of Way and Buildings.   \$5,970 77   Renewals of ties,   1 17   Repairs of bridges, including culverts and cattle guards,   483 89   Repairs of fences, road crossings, and signs,   204 60   Repairs of buildings,   3,705 47   Total,   \$10,365 90   Class 2.—Maintenance of Motive Power and Cars.   Repairs of passenger cars,   1,326 14   Repairs of freight cars,   7,285 45   Total,   \$12,809 54   Class 8.—Conducting Transportation.   \$4,393 00   Water supply,   666 37		-	-	-		•		002			
ANALYSIS OF EXPENSES.  CLASS 1.—Maintenance of Way and Buildings.  Repairs of road way and track,	Total incom	me from al	l source	<b>88,</b> .	-	-	•	•	-	<b>\$47,530</b>	11
CLASS 1.—Maintenance of Way and Buildings.   \$5,970 77	Proportion of i	income for	Michig	gan, .	-	-		47,530	11		
Repairs of roadway and track,   \$5,970 77											
Repairs of bridges, including culverts and cattle guards,			ANAL	rsis oi	f EX	PEN	SES.				
Repairs of bridges, including culverts and cattle guards,									ı.		
Repairs of fences, road crossings, and signs.	Repairs of road	CLASS 1	—Maint	enance					ı. -	<b>\$</b> 5,970	77
Repairs of buildings,		CLASS 1	—Maint	enance					). - -		
Total,	Renewals of tie Repairs of brid	CLASS 1 lway and t s, - ges, includ	-Maint rack, - ling cul	enance	of W	ay a	ind E	Buildings -	- -	1	17
CLASS 2.—Maintenance of Motive Power and Cars.  Repairs of locomotives,	Renewals of tie Repairs of brid Repairs of fence	CLASS 1 lway and t s, - ges, includes, road cr	-Maint rack, - ling cul	enance	of W	ay a	ind E	Buildings -	- - -	1 483 204	17 89 60
Repairs of locomotives,       \$4,197 95         Repairs of passenger cars,       1,326 14         Repairs of freight cars,       7,285 45         Total,       \$12,809 54         CLASS 8.—Conducting Transportation.         Fuel for locomotives,       \$4,393 00         Water supply,       666 37	Renewals of tie Repairs of brid Repairs of fence	CLASS 1 lway and t s, - ges, includes, road cr	-Maint rack, - ling cul	enance	of W	ay a	ind E	Buildings -	- - - -	1 483 204	17 89 60
Repairs of passenger cars,   1,326 14   7,285 45	Repairs of brid Repairs of fence Repairs of build	CLASS 1 lway and t s, - ges, includes, road cr	-Maint rack, - ling cul	enance	of W	ay a	ind E	Buildings -	· · · · · · · · · · · · · · · · · · ·	483 204 3,705	89 60 47
Repairs of passenger cars,   1,326 14   7,285 45	Repairs of brid Repairs of fence Repairs of build	CLASS 1 lway and t s, - ges, includes, road cr dings, -	Maint Frack, 	lverts a	of W	attle	end E	euildings - - ards, - -	-	483 204 3,705	89 60 47
Total,   7,285 45	Renewals of tie Repairs of brid Repairs of fenc Repairs of build Total,	CLASS 1 lway and t s, - ges, includ es, road cr dings,	Maint Frack, 	lverts a	of W	attle	end E	euildings - - ards, - -	-	483 204 3,705 \$10,365	89 60 47 90
CLASS 8.—Conducting Transportation.  Fuel for locomotives,	Renewals of tie Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco	CLASS 1 lway and t s, - ges, includ es, road cr dings,	Maint Frack,  ling cul Fossings    Mainter	lverts a	of W	attle	end E	euildings - - ards, - -	-	\$10,365	95 17 89 60 47 90
Fuel for locomotives,	Renewals of tie Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco Repairs of pass	CLASS 1 lway and t s, - ges, includes, road cr dings,	Maint Frack,  ling cul Fossings    Mainter	lverts a	of W	attle	end E	euildings - - ards, - -	-	\$10,365 \$4,197 1,326	95 14
Water supply, 666 37	Renewals of ties Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco Repairs of pass Repairs of freign	CLASS 1 lway and t s, - ges, includes, road cr dings,	Maint Frack,  ling cul Fossings    Mainter	lverts a	of W	attle	end E	euildings - - ards, - -	-	\$10,365 \$10,365 \$4,197 1,326 7,285	95 14 45
Water supply, 666 37	Renewals of ties Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco Repairs of pass Repairs of freign	CLASS 1 lway and t s, - ges, includ es, road cr dings,	- Maint rack, - ling oul rossings  	lverts a	of W	attle	e gua	ards,	-	\$10,365 \$10,365 \$4,197 1,326 7,285	95 14 45
	Renewals of tie Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco Repairs of pass Repairs of freig Total,	CLASS 1 lway and t s, - ges, includ es, road cr dings,	- Maint rack, - ling oul rossings  	lverts a	of W	attle	e gua	ards,	-	\$10,365 \$10,365 \$4,197 1,326 7,285 \$12,809	95 14 45 54
	Renewals of tie Repairs of brid Repairs of fence Repairs of build Total, Repairs of loco Repairs of pass Repairs of freig Total, Fuel for locome	CLASS 1 lway and t s, - ges, includes, road cr dings,	- Maint rack, - ling oul rossings  	lverts a	of W	attle	e gua	ards,	-	\$10,365 \$10,365 \$4,197 1,326 7,285 \$12,809	95 14 45 54

1897.] MARQUETTE, H	OUG	HTON	& OI	NTONA	GON	RAIL	ROAD	00. 4	29
Locomotive service,	_	_	_	_		_	_	3,722	53
Passenger train service,	_	_	_	_	_	_	_	1,165	
Passenger train supplies,	_		_	_	_	_	_	208	
Freight train service,	_	_		_		_	_	2,011	
Freight train supplies,	•	-	-	-	•	-	-	81	
36:1	-	•	-	•	•	-	-	220	
Telegraph expenses (main				aratin	σ١.	-	-	665	
Damage and loss of freigh	t and	hage	rage.	01 40111	יים	-	-		15
Damages to property and	cattle	. vuge	3 <b>46</b> 0,	-	•	-	-	1,058	
Agents and station service	) )	,	- •	•	-	-	-	2,752	
Station supplies,	,	-	•	-	-		-	171	
casion supplies,	•	-	-	-	•	-			
Total,	-	-	-	-	-	-	-	\$17,519	24
	CLASS	<b>4.</b> —G	ienera	l Expe	mses.				
Salaries of the general off	cers (	of the	Com	nanv.	_		_	\$2,752	58
Salaries of clerks in gener				.p,	_	_	_	1,261	
Law expenses,		-	•	_	-	-	-	566	
Stationery and printing,	-		-	-	_	_	_	552	
Outside agencies and adve	ertigi	nσ.	•	•	•	-	-	40	
Contingencies,		ره	-	-	-	-	-	741	
Contragonolos, 1	•	-	•	-	••	-	• .		
Total,	-	-	-	-	-	-	-	<b>\$</b> 5,915	25
REC	APIT	ULATI	ion (	OF EXI	PEN81	<b>28</b> .			
			ion (	OF EXI	PENSI	Per Ce Expe	nses.		
Maintenance of way and	build	ings,	-	)	P <b>RN</b> 81	Per Ce Expe	nses. B	<b>\$</b> 10,365	
Maintenance of way and Maintenance of motive po	build wer	ings,	-	OF EXI - -	- - -	Per Ce Expe 22	nses. }	12,809	<b>54</b>
Maintenance of way and Maintenance of motive po Conducting transportatio	build wer i	ings, and ca	- ars,	OF EXI - - -	PRN81 - - -	Per Ce Expe 22 27	nses. 3 7 3	12,809 17,519	54 24
Maintenance of way and Maintenance of motive po	build wer i	ings, and ca	- ars,	OF EX1 - - - -	PRN81 - - - -	Per Ce Expe 22	nses. 3 7 3	12,809	54 24
Maintenance of way and Maintenance of motive po Conducting transportatio	build wer a n, ng ta	ings, and ca	- ars, -	- - - - -	- - - - -	Per Ce Expe 22 27	nses. 3 7 3	12,809 17,519	54 24 25
Maintenance of way and Maintenance of motive po Conducting transportatio General expenses, includi Total operating expenses Operating expenses and to	build ower and n, ng ta	ings, and cand tand	xes,	- - - road,	-	Per Ce Expe 25 27 38 13	3 3 3 	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to	build ower a n, ng ta nses a axes ]	ings, and ca exes, and tar per mi	xes,	- - - road,	-	Per Ce Expe 25 27 38 13 100 \$298	33 00 30	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to for trains earning reven Proportion of operating	build ower and ng tanses and axes paxes	ings, and ca exes, and tam per mi per to	xes, ile of	road,	- - - - - un,	Per Ce Expe 25 27 38 13 100 \$298	3 3 3 	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to for trains earning reven	build ower a n, ng ta nses a axes p axes ue,— expen	ings, and ca exes, and tam per mi per to	xes, ile of	road,	oun,	Per Ce Expe 25 27 38 13 100 \$298	33 7 33 33 00 30	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to Operating expenses and to for trains earning reven Proportion of operating Michigan: Main line and branches	build ower and n, ng ta nses a axes p axes ue,— expens	ings, and ca exes, and tam per mi per to	xes, ile of rain 1 7 mil	road, mile res,	un,	Per Ce Expe 22 36 15 100 \$298	33 7 33 33 00 30	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to Operating expenses and to for trains earning reven Proportion of operating Michigan: Main line and branches	build ower; n, ng ta nses a axes p axes exper	ings, and ca exes, and tan per tr 45,69 nses a	xes, ile of rain 1 7 mil	road, mile res,	un,	Per Ce Expe 22 36 15 100 \$298	33 7 33 30 00 30 02	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to Operating expenses and to for trains earning reven Proportion of operating Michigan: Main line and branches	build ower; n, ng ta nses a axes p axes exper , Lease	ings, and can be recommended as a second can be recommended as	xes, ile of rain 1 7 mil	road, mile res, taxes	for	Per Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue	30 00 30 41	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to for trains earning reven Proportion of operating Michigan: Main line and branches  Marquette & Western R.	build ower; n, ng ta nses a axes p axes exper , Lease	ings, and can be reminded the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the reminder to the	xes, ile of rain 1 7 mil	road, mile res, taxes	for	Per Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue Continue	30 00 30 41	12,809 17,519 5,915	54 24 25
Maintenance of way and Maintenance of motive por Conducting transportation General expenses, including Total operating expenses and to Operating expenses and to for trains earning reven Proportion of operating Michigan: Main line and branches  Marquette & Western R.	build ower; n, ng ta nses a axes p axes exper , Lease R, exper earni	ings, and can be a seed for Parages, and tax be a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a seed for not a s	xes, ile of rain 1 7 mil	road, mile res, taxes	for	Per Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Content of the Co	33 7 33 00 30 02 41	12,809 17,519 5,915	54 24 25

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Marquette to Houghton, July, 1883.
From Humboldt to Republic, September, 1873.

#### MAIN LINE.

	Miles, 1	OOths.	Miles. 100ths										
In Michigan: From Marquette to Houghton,	94	94											
Total length completed,	-	-	94 94										
Length of double track on main line,	-	-	1 10										
BRANCHES.													
Lake, from Carp River to Light House Point,	9.	<b>5</b> 0											
Negaunee, from M. & W. R. R. to Negaunee mine,	~	00											
Negaunee, owned jointly with C. & N. W. Ry. (we report one-half),		<b>42</b> .											
Buffalo, from M. & W. R. R. to Buffalo and Pioneer													
mines.		<b>64</b>											
Milwaukee, from Negaunee, to Milwaukee mine,	3	15											
Saginaw, from Winthrop Junction to Saginaw mine,	1	72											
Winthrop, from Winthrop Junction to Winthrop mine,	1	93											
Winthrop, owned jointly with C. & N. W. By. (we report													
one-half),		<b>55</b>											
Dexter, from Dexter Junction to Dexter mine,	2	57											
Boston, from Boston Junction to Boston mine,	2	06											
Republic, from Humboldt to Erie mine,	16												
Champion, from Champion Junction to Champion mine,	1	03											
Northampton, from Northampton Junction to Pascoe													
mine,	2	47	•										
Wetmore, from Spurr Junction to Webster and Wet-													
more mines,		33											
Beaufort, from Beaufort Junction to Titan mine,		76											
Taylor, from Taylor Junction to Taylor mine,	2	<b>3</b> 0											
Total,	40	48											
Total length of branches owned by Company,	-	-	40 48										
Total length of branches owned by Company in Michigan,	40	4 Q											
Total length of road belonging to this Company,	-	-	136 52										
Total length of road belonging to this Company in Michigan,	136	52											
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	40	58											

Aggregate length of tracks in Michigan belonging to this Company, computed as single track, 177 10 Gauge of track, 4 feet 81 inches.

# Proprietary or Leased Roads Operated by this Company.

			•					
Name, description, and le Marquette & Western R				T	otal Mil	es. I	n Mich	igan.
Marquette to Winthro Teal Lake branch:		-	-	-	18	11	18	11
C. & N. W. crossing Lake Angeline branch:	to Detroit mine	• -	-	-	2	09		
Ishpeming to Lake A	ngeline mine,	-	-	-	0	63		
Total length of bra	nches, -	-	-	-	2	72	2	72
Total road,		-	-	-	20	83	20	83
Sidings, spurs, and other	tracks, -	-	-	, <b>-</b>	8	85	8	85
Total track,		-	-	•	-	-	29	68
Total miles operated by the M., H. & O. R. R.,	ie Company,	-	-	-	157	35	157 136	
M. & W. R. R.,		-	-	-	-	-		83
1	MILEAGE, TRAN		ETC.					
	TRAIN MILI	SAGE.						
Miles run by passenger tra Miles run by freight trains			-		-			,297 ,400
Total mileage of train	s earning reven	ue,	-	-	-		45	,697
	- Passenger '	Traffic.						
		81	Numi ad Qua	bers atities.	Mi	es.	Re	ite.
Number of through passes	ngers carried,	_		909	47,4	<b>1</b> 31		
Number of local passenge			14,	813	262,8			
Total number of pass	engers carried,	-	15,	722				
Total passenger milesge, o Average distance traveled	r passengers car	ried of	ne mil	le,	310,8	310 19.7	7	
Average amount received	rom each passen	nger.		-	_		<b>\$</b> 0 /	77.2
Average rate of fare per n	aile for through	D8886	nger	3, _	-	-		03.9
Average rate of fare per n	nile for local pa	ssenge	9 <b>rs</b> ,	_		-		03.9
Average rate of fare per n	.1	9						03.9

# Freight Traffic.

			,	<b></b>				
Number of tons of throug Number of tons of local f						271 075		
Total tons of freight	carri	ed,	-	-	27,	<b>34</b> 6		
Total mileage of through Total mileage of local fre				-	- -		230 079 767,777	
Total freight mileage,	or to	ns ce	arried	one i	nile,			3
Average ton haul for thro Average ton haul for local Average ton haul for all f	freig reigh	ht,	- -	-	-	- -	54 33 37	3
Average rate per ton per m	ile, re	0001V	tol de	thro	agh I	reight	,	5.78
Average rate per ton per n	iile, r	eceiv	ed for	r loca	l freig	ht,		2.47
Average rate per ton per n								3.23
						,		
Freight	Forw	arded	at M	[ichigo	ın Sta	tions.		
				•				Forwarded, Tons.
Grain,								744
	-			-	-	-		•
Flour, Provisions (beef, pork, lar	•		-	-	-	-		233
Provisions (beef, pork, lar	a, etc	3.),	-	-	-	-		521
Animale,	-	-	-	-	-			57
Other agricultural product	is,		-	_	-			458
Animals, Other agricultural product Lumber and forest product	s,	-	-	-		-		19,461
Coal.	_	_	_	-	_			1,285
Plaster, lime and cement,	_	_	_	_			_	20
Salt.	_	-	-	_	_	_	_	13
Salt, Pig and bloom iron, Other iron and castings,	-	•	-	-	-	-		118
Other iron and certing	-	-	-		-	-		245
Stone, brick and sand,	-	-	-	-	-	-		383
Manufactures entitles sh	-	-						
Manufactures,—articles sh	rppea	IFOL	n pon	10 11	proqu	ction,		2,159
Merchandise and other art	icies i	ot e	nume	rated	above	,		1,649
Total forwarded,	-	-	-	-	-	-		27,346
Tonnage of	' Arti	cles I	[ransp	orted-	—Entu	re Roa	d.	
			_				Tons.	Per Cent.
Grain,	-	_	_	_	_	_	744	2.72
Flour,	_	_		_	_		233	
Provisions (beef, pork, lare	d. etc	٠.	_	_	_	_	521	
Animals,	_, 000	• ',	-	•	-	-	57	
Other agricultural product	- Я.	-	-	-	-	-	458	
Lumber and forest product		•	•	-	-	-	19,461	
Coal,	٠,	•	-	-		-	1,285	
Plaster, lime and cement,	•	-	•	-	-	-		
	-	٠	-	-	-	-	20	
Salt,	-	-	-	-	-	-	13	
Pig and bloom iron,	-	-	-	-	-	-	118	.43

1887.]	MARQUETTE, HO	UGE	ITON 6	& ON	TONA	GON :	RAIL	ROAD CO.	433
	ron and castings,	-	-	-	-	-	•	Tons. 245	Per cent
	brick and sand, ectures,—articles sh	- nippe	d fron	- n poi	nt of	prod	- luc-	383	1.40
tion,		-	-	-	_	٠.	-	2,159	7.89
Mercha	ndise and other ar	ticles	not e	num	erated	abov	e, _ 	1,649	6.03
To	tal tons carried,	-	-	-	-	-	-	27,346	100.00

STATE OF NEW YORK, SS. COUNTY OF NEW YORK,

E. W. Allen, Auditor, and W. A. C. Ewen, Treasurer, of the Marquette, Houghton & Ontonagon Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

E. W. ALLEN, W. A. C. EWEN,

Subscribed and sworn to before me this 10th day of April, A. D. 1888, by the said W. A. C. Ewen.

[L. S.]

WILLIAM H. CLARKSON,

Commissioner for the State of Michigan in New York.
Subscribed and sworn to before me this 24th day of April, A. D. 1888, by the said E. W. Allen.

[L. S.]

JAMES WALLACE,

Notary Public Marquette County, Mich.

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# ANNUAL REPORT

#### OF THE

# MARQUETTE, HOUGHTON & ONTONAGON RAILROAD COMPANY.

For the period from February 15th, 1887, to December 31st, 1887.

[Filed May 2, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit. Secretary, L. M. SCHWAN, New York. Treasurer, W. A. C. EWEN, New York. Transfer Agent, A. O. BEEBE, New York.

#### DIRECTORS.

JAS. McMillan, Detroit.

CALVIN S. BRICE, New York.

SAMUEL THOMAS, New York.

GEO. I. SRENEY, New York.

C. R. CUMMINGS, Chicago.

HUGH McMillan, Detroit.

NELSON ROBINSON. New York.

JNO. G. MOORE, New York.

FRANK K. STURGIS, New York.

'Cerm expires July 19, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, —September	· 2, 1	<b>872.</b>		
Number of stockholders at date of last election,	-	-	-	65
Number of stockholders in Michigan at same date,	•	_	-	7
Amount of full paid stock held in Michigan at same date,			_	\$269,000 00

1887.1

Date of annual meeting of stockholders,—Third Thursday in July.

Fiscal year of Company ends December 31.

General offices of the Company are located at Marquette, Mich., and No. 10 Wall street, New York city.

#### REMARKS.

Since the last annual report, owing to the Duluth, South Shore & Atlantic Railway Co. contemplating the construction of a new line of Railroad from Duluth to the Sault Ste. Marie, which would result in paralleling this Company's lines, thereby causing unnecessary and destructive competition, it was unanimously resolved by the Board of Management, which action was subsequently ratified by a majority of the shareholders, to enter into an agreement or arrangement with that company for working and operating the lines of this Company's property.

Pursuant to which, said Company's lines have been leased in perpetuity from February 15th, 1887, to the Duluth, South Shore & Atlantic Railway Co., on their guaranteeing 6 per cent. per annum, payable semi-annually, on August 15th and February 15th, on \$8,278,456 new preferred stock, and providing that the surplus net earnings above such guarantee shall be distributed among the holders of the common stock, besides perfect maintenance of all the Company's property, as shown by the terms of the lease hereto appended.

In accordance with this arrangement, and prior to the consummation of the lease, the preferred capital stock was increased to \$3,278,456 and the common reduced to \$2,378,670 by calling in the old preferred stock, amounting to \$2,259,026, and exchanging for new preferred, share for share, bearing a dividend at 6 per cent. per annum, guaranteed by the Duluth, South Shore & Atlantic Railroad Co., and allowing the common stockholders of record to convert 30 per cent. of their holdings into the said new preferred, and the remaining 70 per cent. in new common stock; thus enabling the latter to participate in the benefits of the lease without any increase in the total stock capitalization.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or	art	icles of	as	sociation,	_	<b>\$</b> 5,657,126	67
Par value of shares,	-	\$100	00				
Average price received per share,	1	100	00				
No. of shares issued,	-	56,5	71				
Amount paid in on common,	_		-	\$2,378,670	67		
Amount paid in on preferred,	-	-	-	3,278,456	00		

Total amount paid in as per books of the Company, \_ 5,657,126 67

Paid in per mile of road owned by Company,
—miles, 132.07,

**\$42,834** 30

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

1 1000		
une 1, 1892	Bostop, Mass	\$1,427,500 00
farch 1, 1908	New York	578,200 00
une 1, 1923	Boston, Mass.	1,500,000 00
April 1, 1925	Boston, Mass.	1,400,000 00
τ	ne 1, 1928	arch 1, 1908 nne 1, 1923 pril 1, 1925 Boston, Mass.

#### UNFUNDED DEBT.

None.

# RECAPITULATION.

Total funded debt,			-	-	-	-		-	<b>\$4,903,700</b>	00	
Total debt liabilit	ies, _		-	-	-	-	-	-	<b>\$4,903,700</b>	00	
Amount of debt liabil	ities p	er m	ile of	road	—13	2.07 1	niles,	-	37,129	55	
Total amount of stock Stock and debt per mi				-	-	-	<u>-</u>	-	10,560,826 79,963		
Interest on the Funded Debt.											
What is the amount of Was it paid for the last			each -	year:	? -	•	-	-	\$322,772 Y	00 es.	
C	COST O	F R	OAD.	AND I	EQUII	PMEN	т.				
Total Cost for Construct	ion and	Equ	ipmen	t of I	Road a	nd Br	anches	Bu	uilt by Compar	n <b>y</b> .	
Total expended for c Average cost of const	ruction	n pe	r mil	e of r	oad (1	not in			\$10,966,911		
sidings),—132.07 m Proportion of cost of	constr	uctio	- on for	Micl	igan,	-	•	-	83,038 10,966,911		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Marquette to Houghton, July, 1883. From Humboldt to Republic, September, 1872.

	MAIN	LIN	E.						
T 13 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Miles. 10		diles. 100	ths.
Length completed in Michigan,	-	-	-	-	-	94	80		
Total length completed,								0.4	80
Total length completed,	-	-	-	-	-	-	-	01	ov
Length of double track on main	line,	-	-	-	-	-	•	1	10
	BRA	NCHE	<b>s.</b>						
Lake, from Carp River to Light	Hou	ве Ро	int,	-	_	2	23		
Milwaukee, from Negaunee to I				, -	-	3	15.		
Winthrop, from Winthrop June						1	93		
Winthrop, owned jointly with	C. 8	t N.	Ŵ.	Ry. (	we				
report one-half),	-	_	-	-	_		<b>55</b> -		
Saginaw, from Winthrop Juncti					-	1	00		
Dexter, from Dexter Junction to					-	2	57		
Boston, from Boston Junction to	o Bost	on m	ine,	-	-	2	06		
Republic, from Humboldt to Er.	ie mir	10,	_	-	•	16	05⋅		
Champion, from Champion Jun	ct. to	Cha	mpio	n mi	ne,	1	03		
Northampton, from Northam	pton	Junc	tion	to J	im	•			
Pascoe mine,	-	-	-	-	-	2	47		
Wetmore, from Spurr Junction	to W	etmo	re &	Webs	ter				
mines,	-	-	-	-	_	1	37		
Beaufort, from Beaufort Junctic	on to	Beau	fort	& Tit	an	•			
mines,	-	-	-	-	-	1	76		
Total length of branches owned l				-	-	-	-	36	17
Total length of branches owned b	y Cor	npan	y in 1	Michig	gan,	36	17		
Total length of road belonging to	this	Com	oanv.	_	_			130	97
Total length of road belonging to					hi-				-
gan,	_	_ •	-	_		132	97		
Aggregate length of sidings, spu	rs. and	l oth	er tra	cks n	ot				
above enumerated,		_	_	_	_	-	_	41	17
Aggregate length of tracks below	nging	to th	is Co	mpan	ıy,				-
computed as single track,	-		_	•	-	_		173	24
Gauge of track 4 feet 81 inches.									
-									

STATE OF MICHIGAN, COUNTY OF WAYNE, 88.

James McMillan, President, and E. W. Allen. Assistant Secretary of the Marquette, Houghton & Ontonagon Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES McMILLAN, President. E. W. ALLEN, Assistant Sec'y.

Subscribed and sworn to before me this 28th day of April, A. D. 1888, by the said James McMillan.

RICHARD RICE,
Notary Public. Wayne Co., Mich.

Subscribed and sworn to before me this 24th day of April, A. D. 1888, by the said E. W. Allen.

JAMES WALLACE, Notary Public, Marquette Co., Mich.

# ANNUAL REPORT

#### OF THE

# MARQUETTE & WESTERN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed May 8, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit. Secretary, L. M. SCHWAN, New York. Treasurer, W. A. C. EWEN, New York. Transfer Agent, A. O. BEBEE, New York.

#### DIRECTORS.

JAS. McMillan, Detroit.
C. S. Brice. New York.
Samuel Thomas, New York.
Geo. I. Seney, New York.
C. R. Cummings, Chicago.
Jno. G. Moore, New York.

Term expires July 19, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October 1	<b>1888.</b>			
Number of stockholders at date of last election,	-	-	-	8
Number of stockholders in Michigan at same date, _	-	-	-	8
Amount of full paid stock held in Michigan at same date,	-		-	\$800 00
Date of annual meeting of stockholders,Third Thursday	in July.			
Fiscal year of Company ends December 81.				
General offices of the Company are located at Marquette	, Mich.,	and	10 W	All street,
New York.			•	

#### REMARKS.

All Marquette & Western R. R. bonds have been destroyed and the mortgages discharged. In their place a new mortgage has been created (M. & W. joining), and the bonds of the Marquette, Houghton & Ontonagon R. R. Company issued. All the Marquette & Western R. R. Company's shares are in the treasury of the M., H. & O. R. R. The M. & W. R. R. is to be operated perpetually by the M., H. & O. R. R. Possession was given in May, 1885. All traffic and other statistics are included in the reports of the Marquette, Houghton & Ontonagon Railroad and Duluth, South Shore & Atlantic Railway Companies.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or Par value of shares,		ticles o		ociation,	-	<b>\$1,250,000</b>	00
Average price received per share,		100	00				
		12,	500				
		. ´		<b>\$625,000</b>	00		
Amount paid in on preferred,	-	-	-	625,000	00		
Total amount paid in, as per	bo	ooks of	the	Company,	_	1,250,000	00
Paid in per mile of road own pany,—miles, 23.01,	ed -	by Co	om- -	<b>\$</b> 54,324	21		

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

None.

# RECAPITULATION.

Total amount of stock and debt,-	-23.01 m	iles,	-	-	_	<b>\$</b> 1,250,000	00
Stock and debt per mile of road,	-		-	-	_	51,324	21

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Marquette to Ishpeming, June, 1884.

	MAIN	TIM	Ľi.				
						Miles, 100ths, Mi	lles, 100ths.
Length completed in Michigan,	-	-	-	-	-	18 11	
Total length completed,	_	-	-		-	•	18 11

# BRANCHES.

Negaunee, fro						mine			37		
Buffalo, from	M. & R	. R., to	Buffal	o mine	θ,	-	_		65		
South Buffalo			-	-	•	_	_		38		
Teal Lake, fro	om C. &	N. W. cr	ossing	to D	etroi	t mine		2	09		
Hartford, .				_	_	_	,		19		
Cambria,	-		-	-	-	-	-		15		
Cleveland He	matita		-	•	-	•	-		44		
Lake Angelia			mina	+ ~ T	aka	Angol	ino		77		
	10, 110	и твиће	ming	10 1	BAR	VIIRei	ше		00		
mine, _	-		-	•	-	-	-		63		
<b></b>											
Total,	-		-	-	-	-	-	4	90		
		•	_	•							
Total len	gth of b	ranches	owned	by Co	mpa	ny,	-	-	-	4	90
Total length	of branc	hee own	ad he	Comp	anv i	in Mi	ch-				•
•	or prant	DOS OWIN	ou by	Comp	ally .		011	A	90		
gan, -	•		-	-	-	-	-	*	90		
Total length	of road	helongin	e to th	is Co	m nar	יע				23	Ωŧ
Total length							in	-	-	20	O.L
	or rose	r nerong	TIE C	, 11119	COL	трацу	ш	ຄວ	01		
Michigan,			<b>-</b>	3 . 41	- 4			23	ΟŢ		
Aggregate len			purs, a	na ot	ner t	racks	not			•	
above enun			<b>-</b> .	-	<b>-</b> .	-	-	-	-	8	42
Aggregate les			longin	g to t	his C	ompa	ny,				
computed a	s single	track,	-	-	-	_	_	-	-	31	43
Gauge of trac	k 4 feet	81 inche	8.								

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STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

James McMillan, President, and E. W. Allen, Assistant Secretary, of the Marquette & Western Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

JAMES McMILLAN, President. E. W. ALLEN, Ass't Secretary.

Subscribed and sworn to before me by the said James McMillan this 28th day of April, A. D. 1888.

RICHARD RICE,

Notary Public, Wayne Co., Mich.

Subscribed and sworn to before me this 24th day of April, A. D. 1888, by the said E. W. Allen.

JAMES WALLACE, Notary Public, Marquette Co., Mich.

#### ANNUAL REPORT

#### OF THE

# HANCOCK & CALUMET RAILROAD COMPANY,

For the Year ending December 31, 1887.

[ Filed May 3, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, Wm. N. CROMWELL, New York.

Secretary and Treasurer, ALFRED JARETZKI, New York.

Auditor, Cashier, and Chief Engineer:

CHAS. S. ROBINSON, Hancock, Mich.

General Manager and Superintendent, C. A. WRIGHT, Hancock, Mich.

General Pass. and Freight Agent, R. H. BRELSFORD, Hancock, Mich.

Attorney, J. W. STONE, Houghton, Mich.

#### DIRECTORS.

WM. N. CROMWELL, New York. HENRY S. IVES, New York. A. S. BIGELOW, Boston, Mass. JOHN DANIELL, Opechee, Mich. A. S. DAME, New York.

Term expires July 10, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Januar	y 14t	h, 188	35.		
Number of stockholders at date of last election,	-	-	-	-	11
Number of stockholders in Michigan at same date,	-	-	-	-	1
Amount of full paid stock held in Michigan at same date		-	-	-	\$100 00

Date of annual meeting of stockholders,—Second Tuesday in July. Fiscal year of Company ends December 31.
General offices of the Company are located at Hancock, Mich.

# GENERAL EXHIBIT.

				DEBIT.		CREDIT.
Total income, Total expenses, including taxes,	- · -	-	-	<b>\$</b> 62,862	22	<b>\$</b> 91, <b>4</b> 78 9 <b>9</b> ·
Net income,	-	-	-		-	28,616 77
Interest on funded debt, Interest on unfunded debt,	- -	-	-	\$15,000 650		
Balance for the year,	-	-	-		-	12,966 33
Balance (profit and loss) last ye Balance forward to next year,	ar, -	-	-	\$30,664	35	17,698 02
				\$30,664	35	<b>\$30,664</b> 35
ANALYSI	s o	F CAP	ITAL	STOCK.	•	
Amount authorized by charter of Par value of shares, No. of shares issued,	or ar -	<b>\$10</b> 0		ociation,	-	<b>\$</b> 350,000 00·
Amount paid in on common,	-	-		<b>\$</b> 350,000	00	
Total amount paid in, as po	er bo	ooks o	f the (	Company,		<b>\$350,000</b> 00·
Paid in per mile of road owned miles, 20.36,	<b>ьу С</b> -	ompar -	1 <b>y,-</b> -	<b>\$</b> 17 <b>,</b> 190	57	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage	6 per cent	June, 1901	Boston	\$250,000 00
Total funded debt				\$250,000 00

# UNFUNDED DEBT.

For what Inco	irred.		Is t	he sam	e to be	Funde	d, or H	low Liqu	idated.	Amoun	t.
For construction										\$112,85	2 74
For equipment											
For real estate								· • • • • • • • • • • • • • • • • • • •			
For renewals									<b></b>		
For miscellaneous		- (								1	
For current balances	. <b></b> .									28,75	8 98
Total unfunded d	lebt									\$141,60	10 67
			R	ECAP	ITULA	TION.					
Total funded de	ebt.	<u>.</u> .	_	_	_	_	_	_	_	<b>\$</b> 250,000	00
Total unfunded			_	•-	-	-	_	7	-	141,609	
Total debt l	li <b>a</b> bili	ties,	_	_	-		_	_		<b>\$391,609</b>	67
Amount of debt	liabi	lities	per 1	mile o	of roa	d.—2	0. <b>3</b> 6 1	niles.	_	19,234	26
			•			•		•		•	
Total amount of Stock and debt					-	-	-	-	-	741,609 36,424	
		GEN	ERAI	L BAI	LANC	E SHI	CET,—	-Dr.			
Construction ac Cash items:	count	,		-	-	-	-	-	-	<b>\$</b> 735,833	19
Cash								<b>\$</b> 1,143	87		
Due from age	nts.	-	-	-	-	-		405			
	,	_	_	_	_	_				1,549	6'
Other assets:											
Materials and		lies,	-	-	-	-	\$	11,582	46		
Sinking fund	B,	<b>-</b>	<u>-</u>	<b>.</b>	٠	_ 3:		13,650	00		
Debit balance viduals,	es iro	m co	mpaı	1168 8	ana 1	naı-		9,658	70		
vicuais,	-	•	•	-	-	-		ə,000		34,891	16
Total,	-	-	-	-	-	-	-	-	-	\$772,274	02
				•							
		GEN	ERA'	[, RA`	LA NO	E SH	राह्म	-CR			
		GEN	ERA	L BA	LANC	E SH	EET,-	-Cr.		<b>\$</b> 350,000	١

446	MIC	H1G.	N RA	ILRO	AD RE	TURN	8.		[Dec.	81.
Unfunded debt: Notes payable,	_	_	-	_	_	<b>\$</b> 112	2,852	74		
Vouchers and acco	ounts,	-	-	_			,756			
									<b>\$141,609</b>	
Profit and loss, or in	come	acco	unts,	-	-	-	-	-	30,664	35
Total,	-	-	-	-	-	-	-	• •	\$772,274	02
	COST	OF	ROAI	) ANI	D EQUI	PMEN	T.			
Total Cost for Constru	ction a	nd E	quipm	ent of	Road a	nd Bro	anche	s Bu	ilt by Compa	ny.
Total expended for of Average cost per mil									<b>\$</b> 735,833	19
miles,	•	-		-	-	•	-	-	36,141	11
Proportion of cost for	or Mic	higa	n,	-	-	-	-	-	735,833	19
CHARGES A	ND CE	REDI'	rs to	PRO	PERTY	DUŔ	ING '	THE	YEAR.	
			MA:	IN LI	NE.		,			
Extensions, -	-	-	-		-	-	-	-	\$10,872	98
Extensions, _ New buildings, _	_	-	-		-	-	-	-	1,399	10
Machinery and tools,	, -	-	-			-	-	-	434	
New locomotives,	-	-	_	-	-	-	-	-	8,107	
New cars,	-	•	-	-	•	-	-	•	6 666	30
Total charges to	prop	erty	accou	nt as	above,	-	-	-	\$27,480	25
Net addition to prop	erty a	ccou	nt,	-	-	-	-	-	27,480	25
	A	NAI	YSIS	of E	ARNIN	GS.				
		PAS	BENG:	BR E	RNING	8.				
Main line and branch	hes:					<b>A</b> 0.4	054	40		
Local fares,	-	-	•	-	-	<b>₹</b> 24	,854	49		
Total passenger	fares,	-	-	-	-	\$24	,854	49		
Express and baggs	æe.	_	_	_	_		183	41		
Mails,	J /	-	•	_	-		739			
Other sources,	-	-	-	-	-		264			
Total passenger	earni	ngs,	-	-	-	-	-	-	26,042	41
Proportion for Mic	higan	١,	_	-	_	<b>\$</b> 26	,042	41		
Per train mile,		<b>.</b>	-	•	-	J	,	61		
Per mile of road,	-	-	-		-	1	,279			
	-	-	_	-	-	_	,			

	FR	EIGHT	rai	RNINGS	3.				
Main line and branches:  Local traffic,	-	_	-	-	<b>\$</b> 6	<b>5,43</b> 6	58		
Total traffic,	-	-	, <u>-</u>	-	\$6	5, <b>4</b> 36	58	•	
Total freight earnings	,		-	-	-	-	-	65,436	58.
Proportion for Michigan, Per train mile,	-	-	-	-	<b>\$</b> 6	5,436 1	58 72		
Per mile of road,	-	-	-	-		3,213			
Total transportation e	arni	ngs,	-	-	-	_	-	\$91,478	99
Transportation earnings Transportation earnings po	per er tr	mile ain m	of roile,	oad, -		4,493 1	07 14		
Total earnings from o	perat	tion o	f roa	d,	-	•	-	\$91,478	99
Total earnings per mile of		d,		-		4,493	07		
Total earnings per train m	ile,	-	-			1	14		
Proportion of taxable earn Total taxable earnings per	ings r mi	for l	Mich: road	i <b>gan,</b> lin	.8	1,478	99		
Michigan,	-	-	-	-		4,493	07		
Total income from all	sou	rces,	-	-	-	-	•	<b>\$91,478</b>	99
Proportion of income for	Mich	igan,	-	-	-	-	-	91,478	99-
A	NAI	Lysis	OF E	XPEN	ses.	,	•		
CLASS 1.—	Mair	rtenan	ce of	Way a	nd B	uilding	18.		
Repairs of roadway and tr Renewals of ties,	ack,	-	-	-	-	•	-	\$10,290 85	76· 50
Repairs of bridges, includi	ing c	ulveri	ts and	d cattl	le gus	rds,	-	755	
Repairs of buildings,		-	-	-	-	•	-	542	36
Total,	-	•	-	-	-	-	•	\$11,674	13:
CLASS 2.—M	ainte	nance	of M	otive F	ower	and C	ars.		
Repairs of locomotives,	_		_		-	_		<b>*</b> 3,873	<b>54</b> .
Repairs of passenger cars,	-	-	-	-	-	-	-	1,416	
Repairs of freight cars,	-	-	-	-	-	-	-	5,673	
Total,	-	-	•	-	-	-	-	<b>\$</b> 10,963	96.

448	MIC	HIGA	N RA	AILRO	AD R	ETU	RNS.		[Dec.	81.
	CLASS	8.— <i>C</i>	onduc	ting	Trans	porto	ition.			
Fuel for locomotives	• -		-	-	-	_	•	_	\$9,928	07
Water supply,	•	-	-	-	-	_	-			30
Oil and waste,	_	_		_	-	-	-	-	1,018	29
Locomotive service,	_	-	_	-	-	_	-	_	6,626	
Passenger train serv		-	-	_	-	_		-	1,500	
Passenger train supp	plies,	_	-	-	-	-	-	-	8	60
Freight train service		-	_	-	-	-	-	-	4,479	69
Freight train suppli-	es,	-	-	-		-	•	-	8	60
Damage and loss of	freigh	t and	bagg	gage,	-	-	-	-	41	76
Damages to property	and	cattle	θ,	-	-	-	-	-	325	00
Agents and station s	ervice	- وا	-	-	_	_	-	-	5,983	92
Station supplies,	_	· -	-	_	-	-		-	450	57
Total,	_	_	_	_	_		_		\$30,460	27
	_	_	-	_	_	_	_	-	******	~,
		CLASS			-					
Salaries of the gener	ral off	icers	of th	e Cor	npan	7,	-	-	<b>\$</b> 4,250	00
Salaries of clerks in	gene	ral off	ices,	-	-	-	-	-	1,533	27
Law expenses,	_	-	-	-	-	-		-	408	33
Insurance,	<b>-</b> .	-	-	-	-	-	-	-	434	25
Stationery and print	ing,	-		-	-	-	_	-	758	31
Outside agencies and	l adve	ertisin	g,	-	-	-	-	-	54	67
Contingencies, -	-	-	-	-	-	-	-	-	702	
Taxes,	-	-	-	-	-	-	-	_	1,622	57
								-		
Total,	•	-	-	-	•	-	-	-	<b>\$</b> 9,763	86
	DW	APIT	TT A TT		D DY	D <b>17/ N</b> T (1	2720			
	М	JAF11	ULAII	IOM O	e ba	LEM	Per C Of Exp	ent		
Maintenance of way	and b	ouildi	ngs,	_	-	-	18.	58	\$11,674	13
Maintenance of mot				rs,	-	_	17.	44	10,963	
Conducting transpor			_	_	_		48.	45	30,460	
General expenses, in				-	-	-	15.	53 	9,763	
Total operating	exper	1868 81	nd ta	xes,	•	-	100.	00	<b>\$</b> 62,862	22
Operating expenses a Operating expenses a for trains earning	and ta	xes p	er tr	ain n	ile r	un,	<b>\$3,087</b>			
Proportion of operation Michigan:						for				
Main line,	-	-	•	-	-	_	62,862	22		
Total proportion	of e	xpens	es for	Mich	igan,	-	-	-	62,862	22

Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,



68

- \$1,405 54

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Hancock to Calumet, December, 1885.
From Junction to Lake Linden, December, 1885.
From Calumet to Allouez, March 12, 1887.

#### MAIN LINE.

In Michigan:	Miles, 100ths, 1	Miles, 100ths.
From Hancock to Allouez,	17 86	
Total length completed,		17 86
BRANCHES.		
Lake Linden branch, from Junction to Lake Linden,	2 50	
Total length of branches owned by Company,	. :	2 50
Total length of branches owned by Company in Michigan	, 2 50	
Total length of road belonging to this Company, Total length of road belonging to this Company in Michigan, Aggregate length in Michigan of sidings, spurs, and	20 36	20 36
other tracks not above enumerated,	7 02	27 38
	Potal Miles. In	Michigan.
Total miles operated by the Company,	20 36	20 36
Number of Bridges and Trestles in Michiga	ın.	
Iron bridges, number of, 3; aggregate length, a Wooden trestles, number of, 17; aggregate length, if	leet, leet,	560 <b>4,45</b> 0
Total, 20;	-	5,010
. Draw Bridges in Michigan.		
How many on your line?	-	None.
Crossings—Railroad and Highway.		

What railroads cross your road at grade in this State, and at what locality? Mineral Range R. R., at Osceola.



What railroads and where? None. At what crossin Osceola. What pattern of	ngs ar or pat	e int	erlock have	ing a	nd de	<b>ra</b> ilin	-	_		•
Pennsylvania										
Number of cro	ssing	s of	highv	vays s	at gra	e in t. de in	his St this	ate, State	- , at	12
which there	are ga	tes o	r flag	men,	-	_	. <del>-</del>	•.	-	0
Number of cro		of h	ighwa	ys ove	er or u	nder	railro	rd (oz	er,	_
1; under, — Number of hig	),	,			, -		-	-	-	1
Number of his	nway	bria	ges Le	9 100t	above	trace	[, L		-	1
Number of hig Have safety gu										None. Yes.
Are your frogs										1 68.
Session Laws			TOTTO	DIOCE	ou as.	roqui	ou by	ACUL	17,	Yes.
How are they t			-	-	-	•	-	•	•	1 05.
Wooden bloc			d.							
				8	tation	R.				
				~						
Number of star	tions (	on w	hole l	ine,	_	-	-	_	-	5
Same in Michig	gan,	_	-	-	-	_	-	-	-	5
_										
				E.	mployé	i o				
	,			E	neproye	·o.				
Number of per	sons 1	egul	arly e	mplo	ved or	allı	roads	opera	ted	
by Company,	, inclu	ding	offici	als,	_	_			-	70
Same in Michi	gan,	- `	_	-	_	_	-	_	-	70
	_									
Classify your e	mploy	7és a	s per i	follow	ring li	st:				
										Number.
Baggagemen,	-	-	-	, <b>-</b>	-	-	-	-	-	_
Brakemen, Conductors,	-	•	-	-	-	-	-	-	-	6
Brakemen, Conductors, Engineers,	-	-	-	-	-	-	-	-	٦.	3
Engineers,	-	-	-	-	-	-	-	-	-	. 5
Firemen, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborers, Laborer	-	-	-	-	•	٠	-	-	-	5 20
Shopmen		-	-	-	-	-	-	-	-	20 6
Vardman	-	-	-	-				-	-	5
Yardmen, Others,	-	-	-	-	-	-	-	-	-	20
Outors, -	-	-	-	-	-	-	-	-	-	20
			REPA	IRS A	ND R	ENEW	ALS.			
			Fe	ncing	in M	ichiga	n.			
TT			. ,		•					-
How many mil Give the numb sides of your needed:	ber of	mil	es req	uired	to c	- omple he cou	te fer	in wh	oth ich	5

1887.]	HANCO	OCK &	c CAI	LUME	T RAI	LROA!	D CO.	451
<b>-</b>								
In Houghton cour	nty,	-	-	-	-	-		36
Total miles,	-	-	-	-	-	-		36
		Road	d Bed	and	Track	•		
Number of track	sections	in M	ichig	an,	-	-		4
Average length of	sections	(mil	es),	_	•	-		5
Average number of				ion g	ang,	•		6
Number of new t							r, _	475
Number of new t	ies put ir	a trac	k in	Michi	gan,	-	,	475
Average number	of new ti	ies per	r mil	e of 1	road,	-		23
_		_						_
		R	OLLI	NG 87	rock.			
							Number.	Present Estimated Value.
Number of locome exclusive of ter	der,	-		-	-	•	4	\$29,107 23
Number of locon exclusive of ter		f 20 t -	to 30 -	tons	weig -	ht, -	1	3,000 00
Total,	-	-	-	-	-	-	5	\$32, 07 23
Number of pass	enger c	ars—8	3-whe	el. i	ncludi	in <b>ø</b>		
official cars,	_	_	_	_	_	-	4	8,000 00
Number of expres		ggage	care	3	_	_	1	250 00
Number of box fr				_	-		15	4,500 00
Number of platfor			_	-	_	-	52	10,400 00
Number ore cars,	_	_		-	_		55	18,666 30
Other cars as follo	ws:							
Hand cars,	-	-	-	-	-	-	4	280 00
Total,	-	-	-	-	•	-	131	\$74,203 53
Number of locomo Number of passe							1	
power brakes,	-	-	_	_	_	-	4	
Number of freigh What patterns of p number of loco Westinghouse as	power bra motives a utomatic	kes h ind ca air b	ave y irs wi rake-	ou in ith ea —1 lo	use, a ch ? como	nd tive an		
Are your freight of as required by A What pattern or p Blocker.	ct No. 1	47, Se	ession	Law	s of 1	1885?	ouplers 	Yes.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by freight Miles run by mixed		ing the	yean	r, -	-	-	-	37,896 42,589
Total mileage	of trains ea	rning 1	reven	ue,	-	-	-	80,485
		<b>Passen</b> g	ner Tr	affic.				
		_ 0000109	,0		Number Quantii	and	Miles.	Rate. Dolls. Cts.
Number of local pa	ssengers ca	rried,	-	-	82,	_		
Total number	of passenge	rs carri	ied,	-	82,	61 <b>4</b>		
Total passenger mil Average distance tr Average amount re Average rate of fare Average rate of fare	caveled by exceived from experiments	ach pas each or loca	senge passe l pass	er, nger, ænge	- rs,	l <b>e,</b> - - -	732,294 8.86  	
		Freig	ht Tr	affic.				
Number of tons of	local freigh	t carrie	d,	343,	882	•		
Total tons of f	reight carri	ed,	-	343	,882			
Total mileage of lo	cal freight,	-	-	-	-		2,380,907	
Total freight n	nileage, or i	tons car	rried	one	mile,	<del>,</del>	2,380,907	
Average ton haul for Average amount re Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average rate per to Average	or all freigh eceived for e on per mile,	t, _ each to receive	ed fo	r loca			7 7 	
	Freight for				- u			
	r regime for	wai ucu	ш <i>Ш</i>	wwya	n suu	₩ <i>11</i> 8.		Forwarded, Tons.
Grain,		-	-	_	-			713
Flour,	, , , , ,		-	-	-	-		666
Provisions (beef, po	ork, lard, et	.c.	-	-	-	-		649
Other agricultural	nroducts	-	-	-	-	-		6 142
Lumber and forest	products,	-	-	-	-	-		63,664
Coal,	Producis,	-	-	-	-	-		5,852
Ores.		-	-	-	-	-		267,063
Manufactures,—ar	tiolog shipp	ad fra	- L mair	nt of	neod.	notic	- \n	1,089
Merchandise and o	ther articles	not e	nume	rated	above	, -	·	4,038
Total forwarde	_							343,882

# Tonnage of Articles Transported. - Entire Road.

					,					Tons.	Per Cent.
Grain,	-	-	_	_		_	_	-	-	713	.207
Flour,	-	-	-	_	-	_	_	_	_	666	.193
Provisions	(be	ef, p	ork, la	ard, et	c.),	-	_	-	-	649	.189
Animals,	-`	•	_	-	-	-	-	_	-	6	.002
Other agr	icult	ural	produ	cts,	-	_	-	-	-	142	.041
Lumber a	nd f	orest	produ	icts,	-	_	-	_	-	63,664	18.514
Coal,	-	_		_	_	-	-	-	-	5,852	1.702
Ores, copp						_	-	-	-	267,063	77.663
Manufacti	ares,	—arti	icles s	hippe	d fro	m po	int of	prod	luc-		
tion,	-	-	-	-	-	_	-		-	1,089	317
Merchand	ise a	nd ot	hệr a	rticle	not	enun	ıerate	d abo	νe,	4,038	1.172
Total	ton	s carr	ied,	-	_	_	_	-	-	343,882	100.00

#### ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? American Express Company runs on this road, doing a general express business, and paying twenty cents per one hundred pounds for all express freight carried. The express is taken at our depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Miles telephone line belonging to Hancock & Calumet R. R. Co., 20.36.
Miles telegraph line belonging to Mineral Range Railroad Co., 10.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### INJURED.

September 7. —— Balanger, Osceola, trespasser; carelessness. November 15. Barney Halseth, brakeman, Osceola, coupling; carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others,	Passengers.	Employés.	Others.		
Collisions		-,						
Coupling cars				 	1			
Derailments								
Falling from trains						 		
Frogs								
Getting on and off trains								
Highway crossings						 		
Miscellaneous						l <u></u>		
Overhead obstructions								
Prespassers on trains				ı	i	ľ		
Frespassers on tracks				1				
Total					1			
SUMMA	RY OF A	CCIDEN	rs in Mi	CHIGAN				
Number of persons killed	d during	the vear		_				
Number of persons injur						5		
Number of casualties pur				-		_		
Number resulting from la	ick of cau	ition, car	elessness	-	enduct,	,		
Persons killed or injured								
Trespassers and tramps l								

# CLASSIFICATION OF EMPLOYÉS.

# KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen		1	
Conductors			
Engineers			
Firemen		 	
Laborers			
Shopmen			<u></u>
Yardmen	i		
Not classified above			
			İ
Total		. 1	

STATE OF MICHIGAN, COUNTY OF HOUGHTON, 88.

Charles A. Wright, General Manager of the Hancock & Calumet Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, CHARLES A. WRIGHT.
Subscribed and sworn to before me this 26th day of April, A. D. 1888.

[L. S.] CHARLES D. HANCHETT,

Notary Public.

# ANNUAL REPORT

OF THE

# MINERAL RANGE RAILROAD COMPANY,

For the Year ending December 31, 1887,

[Filed May 4, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, FRANCIS B. LOOMIS, New York.

Secretary and Treasurer, W. C. BOONE, New York.

Auditor and Cashier, CHARLES S. ROBINSON, Hancock, Mich.

General Manager, C. A. WRIGHT, Hancock, Mich.

General Passenger and Freight Agent,

R. H. BRELSFORD, Hancock, Mich.

Attorney, J. W. STONE, Houghton, Mich.

#### DIRECTORS.

FRANCIS B. LOOMIS, New York.
W. C. BOONE, New York.
WM. N. CROMWELL, New York.
C. W. CASS, New York.
WM. G. SMITH, New York.
JAMES GRAHAM, New York.
CHARLES PHILLIPS, Philadelphia.
W. R. SHELBY, Grand Rapids, Mich.
PETER RUPPE, Hancock, Mich.
JACOB BAER, Hancock, Mich.
C. A. WRIGHT, Hancock, Mich.

Term expires July 10, 1888.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—November 8, 1871.	
Number of stockholders at date of last election,	62
Number of stockholders in Michigan at same date,	6
Amount of full paid stock held in Michigan at same date,	\$5,500 00
Date of annual meeting of stockholders,—Second Tuesday in July.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Hancock, Mich.	

# GENERAL EXHIBIT.

			OEBIT.	CREDIT.
Total income,	-	-	\$56,121 21	<b>\$153,781</b> 97
Net income,	-	-		\$97,660 76
Interest on funded debt,	-	-	35,544 00	
Balance applicable to dividends,	-	-		\$62,116 76
Dividends declared (74 per cent.),	-	-	30,000 00	
Balance for the year, _	-	-		\$32,116 76
Balance (profit and loss) last year, Balance forward to next year,	-	-	130,988 92	98,872 16
·			\$130,988 92	<b>\$</b> 130,988 92
ANALYSIS OF  Amount authorized by charter or art  Par value of shares,  No. of shares issued,  Amount paid in on common,  Total amount paid in, as per boo	icles \$100 3,	of ass 00 917 -	*391,700 00	\$400,000 00 391,700 00
Total amount paid in, as per bod	KS OI	тие с	ompany, -	591,700 00
Paid in per mile of road owned by miles, 17, 58	Con -	pany -	,— \$23,041 18	

# MICHIGAN RAILROAD RETURNS.

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
8 per cent.	June 1, 1888	New York	\$198,900 00
4 per cent.	Jan. 1, 1987	New York	218,200 00
5 per cent.	Oct. 1, 1915	New York	100,000 00
5 per cent.	Jan. 1, 1916	New York	100,000 90
	8 per cent. 4 per cent. 5 per cent.	8 per cent. June 1, 1888 4 per cent. Jan. 1, 1987 5 per cent. Oct. 1, 1915	8 per cent. June 1, 1888 New York 4 per cent. Jan. 1, 1987 New York

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		
For real estate		
For renewals		 
For miscellaneous		\$28,628 7
For current balances		
Total unfunded debt		\$28,628 77

# RECAPITULATION.

Total funded debt, _ Total unfunded debt,	-	-	-	-	-	-	- -	\$612,100 28,628	
Total debt liabilities,	-	-	-	-		-	-	\$640,728	73
Amount of debt liabilities	per	mile	of ro	ad (17	mile	s),	-	37,689	92
Total amount of stock and Stock and debt per mile of			-	-	-	-	-	1,032,428 60,731	
GENE	RAL	BA1	LANCI	E SHE	ET.—	Dr.			
Construction account, Equipment account, . Cash items:	<u>-</u>	-	-	-	-	• •	•	\$647,594 73,099	

7,724 90

\$2,167 11 5,557 79

Other assets: Materials and	d sup	plies,	_ \	-	-	-	<b>\$1</b> 4	1,694	34		
Debit balanc		om co	mpan	nies an	ıd in	di-					
viduals,	-	-	-	. •	-	-	420	,304	69	<b>A</b> 404 000	~~
						•				<b>\$434,999</b>	03
, Total,	-	-	-	-	-	-	-	-	-	\$1,163,417	65
		GEN	ERAL	BAL	NCE	SHEE	T.—C	R.			
O!4-1 -41-			,				-			<b>****</b>	^^
Capital stock, Funded debt,	-	-	-	-	-	-	-	-	-	<b>\$391,700</b>	
runded debt,	-	- /	-	-	-		-	-	-	612,100	
										<b>\$1,003,800</b>	00
Unfunded deb	t:									·-,,	
Interest unp	aid,	-	_	-	_	_	\$12	2,588	00		
Notes payab	le,	_	_	-	-	_	ŧ	5.542	50		
Vouchers an	d acc	ounts		-	-	_	10	,498	23	•	
Profit and lo	ss or	incom	10 acc	ounts,	-	_		988,0			
				•	•					159,617	65
											—
Total,	-	-	-	-	-	-	-	-	-	<b>\$</b> 1,163,417	65
Total Cost for Control of Cost Cost Cost Cost Cost Cost Cost Cost	l for per 1	constanile o	ructio of ros	n and ad (no	equi	pment	,	-	_	\$720,693 \$2,393 720,693	72 74
CHARG	ES A	ND CE	REDIT	8 TO I	PROP	ERTY	DURI	ING 1	ГНЕ	YEAR.	
				WATI	T LIN	7 10					
				MAII	A DIE	ı .c.					
Extensions,	<b>-</b> .	٠.	-	-	-	-	-	-	-	\$75,340	
New buildings	and	real e	state,	-	-	-	-	-	-	32,284	
Machinery and	tools	۔ وا	-	-	-	-	-	-	-	492	
New cars,	-	-	-	-	-	-	-	-	-	9,012	73
Total,	•	-	-	-	•	-	-	-	-	\$117,130	79
				BRA	NCHE	8.					
Extensions,	-	-	-	-	-	-	-	-	-	<b>\$</b> 80 <b>5</b>	98
Total,	-	-	-	-	-	-	-	-	-	\$805	98
Total char	ges te	p <b>r</b> op	erty :	accoun	t as s	above,	-	-	-	\$117,936	77
Net addition to	proj	perty a	accou 1	nt,	_	-	-	-		117,936	77

# ANALYSIS OF EARNINGS.

# PASSENGER EARNINGS.

Main line and bra Local fares,	nches:	-			_		_	_	<b>\$</b> 29,958	42
Total passeng	er fares,	-	-	-	-	-	-	-	\$29,958	42
Express and bag	gg <b>ag</b> e,			-	-	-	-		781 790	
Total passeng	er earnir	ıgs,	-	-	-	- '	٠_	-	\$31,530	01
Proportion for Per train mile, Per mile of roa	Michigan	n; -	-	- -	-		1,530 1,854	66		
	-, -	 			_		-,	•		
		FRI	IGHT	EAR	NING	8.				
Main line and bra Local traffic,		-	-	-	-	<b>\$</b> 6	8,039	15		
Total traffic,	-	-	-	-	-	\$6	8,039	15		
Total freight	earnings	3,	-	-	-	-	-	_	<b>\$6</b> 8,039	15
Proportion for I Per train mile, Per mile of road		, - -	-	-	- - -		8,039 2 4,002	24		
Total transpo Transportation ea Transportation ea Miscellaneous rece other than for t	rnings pe rnings pe ipts fron	er mi er tra 1 opei	ile of in m rating	ile, z acco	unt,	- 8	5,857 1	01 27	<b>\$99,569</b>	16
From other source		-	-	-	-	-	-	-	9,112	81
Total,	-	-	-	-	-	-	-	-	\$108,681	97
Total earning	s from o	perat	ion o	f road	i,	-	-	-	<b>\$</b> 108,681	97
Total earnings per Total earnings per Proportion of taxa Total taxable ear Michigan, Income other than	train malle earnings pe	ile, ings i r mi	for M le of	ichiga road -	an, in -	108	6,393 1 8,681 3,393	38 97	<b>45,</b> 100	00
Total income	from all	sourc	es,	-	-	-	-	-	\$153,781	97
Proportion of inco	ome for M	lichi	gan,	-		15	3,781	97		

# ANALYSIS OF EXPENSES.

# CLASS 1.—Maintenance of Way and Buildings.

	- <del> </del>							,	-		
Repairs of road	lway a	nd tra	ıck,	_	-	-	-	_	-	\$6,613	51
Renewals of ti	es.	-		-	-	-		_	_	160	
Repairs of brid	lges, i	nelud	ing cu	lvert	and	cattle	guar	ds.	_	367	67
Repairs of buil	dings.			_	_		-			1,341	
•											
Total,	_		_		_	-	-		_	<b>\$8,483</b>	38
·											
	CLASS	2.— <i>M</i>	ainten	ance c	f Mot	ive Po	wer a	nd Co	trs.	•	
Repairs of loce	omotiv	708.	_	_	_	-	_	_	_	\$2,236	77
Repairs of pass	senger	cars.	_	_	_	_	_	_	_	1,112	
Repairs of frei	ght c	ars.	_	_	_	_	_	_	_	1,922	
200 Pullo 01 210.	8	<b>-</b>	-	-	-	_	-	-			
Total,	_	-	<b>-</b> .	_	_	-	-	-	_	\$5,272	60
•			•							•	
					•						
		CLASS	8.—C	onduc	ting I	ranspo	rtatio	m.			
						•					
Fuel for locom	otives		_				_	_		<b>\$</b> 6,975	28
Oil and waste.	.001100	, -	-	-	-	•	•	•	-	662	
Locomotive ser	rvice	-	-	-	-	-	-	-	-	6,870	
Oil and waste, Locomotive ser Passenger train Passenger train	n garv	ica	-	-	-	-	-	-	-	1,560	
Pesson gar trais	1 901 1	lios	-	-	-	•	-	-	-		76
Troight train	aossio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	-	-	-	-	-	-	2,686	
Freight train Freight train s	nnnlie	o,	-	-	-	-	-	•	-	84	
Damage and lo	an of	faniah	. and	- boara	-	-	-	-	-	227	
Damage and it	DRS OT	Treign	oottla	Uagg	age,	-	-	-	-	153	
Damages to pr	operty	anu (	carrie,		-	-	-	-	-	10,359	
Agents and sta	PLION 8	ervice,	, -	-	-	-	-	-	-		
Station supplies	98,	-	-	•	-	-	-	-	-	666	80
Total,									_	\$30,331	50
T Otal,	-	-	-	-	-	-	-	-	-	<b>4</b> 00,00T	U
		(	T.ASS	4. — <i>Ge</i>	neral	Expen	ses.				
•		`									
Salaries of the	gener	al offi	CATE O	f the	Com	nan v.	_			<b>\$4,650</b>	00
Salaries of cle	rke in	gener	al offi	CAR.		,,,,	•	-	•	1,724	43
Law expenses,	100 111	Sonor				-	-	-	-	367	
Insurance,	•	-	-	<u>-</u>	-	-	-	-	-	1,078	
Insurance, Stationery and	-   nrint	ina	-	-	-	-	-	•	-	698	
Outside agenci	bring	ing,	- etiain	- ~	-	-	-	-	-	127	
Continuo agenci	ies and	. acuve	TOIRIII	g,	-	-	-	-	-		
Contingencies,	-	-	-	•	-	-	-	-	-	1,630	
Taxes, -	-	-	-	-	-	-	•	-	-	1,757	34
Total,									_	<b>\$12,033</b>	60
TOPE	-	-	-	-	_	-	-	-	-		U

# RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and cars, Conducting transportation, General expenses, including taxes,		-	Per Cent of Expenses. 15.11 9.40 54.05 21.44	\$8,483 5,272 30,331 12,033	60 59
Total operating expenses and taxes,	-	-	100.00	\$56,121	21
Operating expenses and taxes per mile of	road,	-		<b>\$</b> 3,301	25
Operating expenses and taxes per train for trains earning revenue (78,326 mil Proportion of operating expenses and Michigan:	es),	-	<b>\$</b> 0 71		
Main line,	-	-	56,121 21		
Total proportion of expenses for Mic	higan,	-		\$56,121	21
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	- -	51 - -	3,091 81 67		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Houghton to Red Jacket, March 26, 1886.

	MAIN	LIN	E.						
In Michigan:						Miles.1	JULDII. I	diles, 1	UOths.
From Houghton to Red Jacke	t,	-	-	-	-	15	00		
Total length completed,	-	-	-	-	•	-	_	15	00
	BRAI	CHE	<b>3.</b>						
Franklin Branch, from Franklin	Stat	ion to	Quir	icy M	Line,	-		2	00
Total length of branches ow	ned b	y Coi	npany	7,	-	-	-	2	00
Total length of branches owned Total length of road belonging to Total length of road belongin	o this	Com	pany,	_	-	2	00	17	00
Michigan, Aggregate length in Michigan of	- siding	-		- "	•	17	00		
tracks not above enumerated, Aggregate length of tracks in Mi		n bel	- ongin	g to	- this	•	-	5	00
Company, computed as single Gauge of track, 3 feet.			-	-	•	22	00		
Total miles operated by the	Comp	any.	_	_	_	17	00	17	00

# Number of Bridges and Trestles in Michigan.

Wooden trestl	es, nu	ımber	of,	- 6; a	ggregat	e leng	th, f	et,	645
Total,	-	-	-	6;	-	-	-	-	645

Draw Bridges in Michigan.
How many on your line?
Where located, when built, and length of draw span? Houghton, Mich.
Built in 1886.
Total length of draw span, 180 feet.
Character of structure:
Howe truss spans, supported by wooden cribs filled with rip-rap.
Material of which constructed:
Wood.
Height above water, and depth of water under bridge:
Height above water, 6 feet.
Depth of water, 34 feet.
How swung, by engine or hand power?
By engine.
Approaches, straight or curved?
Curved.
Do you require all trains to come to a full stop before crossing draw, and how are they signaled?
Trains all required to come to full stop before crossing draw.
Trains are signaled by flagmen stationed at draw.

# Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what local Hancock & Calumet R. R., at Osceola.  Hecla & Torch Lake R. R., at Calumet.  At what crossings are interlocking and derailing switches in operation Osceola.	·
What pattern or patterns have you adopted?	
Pennsylvania Steel Co.'s pattern.	
Number of crossings of highways at grade in this State,	18
Number of crossings of highways at grade in this State at	
which there are gates or flagmen,	None.
Number of crossings at which there are electric or automatic	
signals,	None.
What pattern or patterns in use?	None.
Number of crossings of highways over or under railroad (over,	
1; under, 1),	2
	1
Number of highway bridges 18 feet above track,	1
Number of highway bridges, less than 18 feet above track,	None.
Have safety guards been erected at over-head obstructions?	
We have no overhead obstructions.	

Are your frogs 174, Session Yes. How are they t	Laws treate	of 18	883?	block	ed as	requi	red by	y Act	No.	·
				S	tation	8.		•		
Number of sta Same in Michi				line, -		-	-	-	-	4 4
				E	mploye	śs.				
Number of per						n all 1	roads	opera	ted	
by Company		luding	ottic	ıals,	-	-	-	-	-	60
Same in Michig				<b>4</b> - 11			-	-	-	60
Classify your e	mbro	yes a	s per	IOIIOM	nng 11	.st :				Number.
Baggagaman										4
Baggagemen, Brakemen,	-		•	-	-	-	-	-	-	5
	-	-	•	-	-	-	-	•	-	2
Conductors, Engineers,	-	-	•	-	-	-	-	-	-	5
Firamen	•	-	-	-	-	-	-	-	-	5
Firemen, -	-	-	-	-	-	-	-	-	-	14
Laborers, - Shopmen, -	-	-	-	-	-	-	-	-	-	8
Vardman	-	-	-	-	-	-	-	-	•	5
Yardmen, _ Others, _	-	-	•	-	-	-	-	-	-	12
	-	-	-	-	-	-	-	•	-	1~
			REPA	IRS A	ND R	ENEW	ALS.			
			F	<i>`encing</i>	in M	ich <b>i</b> gar	ı.			
How many mil Give the num sides of your needed: Thirty-one n	ber o	of mil	les re Michi	quired igan,	to d					3
			R	oad B	ed and	l Trac	ŀ			
						1 - 10	•			
Number of tra					an,	-	-	-	-	3
Average lengtl						-	-	-	-	6
Average numb							-	-	-	4
Number of nev							e yea	Γ, -	-	921
Number of nev	v ties	put i	n tra	ck in	Mich	igan,	•	-	-	921
Average numb							-	-	-	53

921 **53** 

# ROLLING STOCK

ROLLING STOCK.		
Number. Esti	Present mated Va	lue.
exclusive of tender, 1	<b>\$7,500</b>	
Number of locomotives of 10 to 20 tons weight, exclusive of tender, 4	20,000	00
	27,500	00
Number of passenger cars — 8-wheel, including		
official cars, _ ' 4	11,932	85
Number of express and baggage cars, 2	5,768	70
Number of box freight cars, 22	9,900	00
Number of platform cars, 58	17,400	00
Number of conductors' way cars,	500	00
Other cars as follows, 4	278	65
Total, 91	73,280	20
Number of locomotives equipped with power brakes, 2		
Number of passenger-train cars equipped with		
power brakes, 3	,	
Number of freight cars equipped with power		
brakes, None.		
What patterns of power brakes have you in use,		
and number of locomotives and cars with each?		
Westinghouse automatic air brake on one locomotive and two ca	rs,	
Eames' Vacuum Brake on one locomotive and one car.		
Are your freight cars being equipped with automatic couplers as re	quired	by
Act No. 147, Session Laws of 1885?	•	•
Yes.		
What pattern or patterns have you adopted for use? Blocker.		
MILEAGE, TRAFFIC, ETC.		
Train Mileage.		

# Train Mileage.

Miles run by freight trains during the year Miles run by mixed trains,	·, -	-	- -	-	30,315 48,011
Total mileage of trains earning revenu	ιθ,	-	-	-	78,326
Passenger Tre	ıfflc.				
		Number Quanti		Miles.	Rate.
Number of local passengers carried, -	-	102,	746		
Total number of passengers carried,	-	102,	746		
Total passenger mileage, or passengers carr	ried	one m	ile,	751,928	
Average distance traveled by each passenge		-	•	7.31	

466 MICHIGAN RAILROAD RETURNS.											
Average amount rec Average rate of fare Average rate of fare	per mile for	r loca	al pas	senge		-		Rate. \$0 29.15 03.98 03.98			
	;	Freig	ht Tra	fic.							
Number of tons of	local freight	carı	ried,		105,	150					
Total tons of fi	reight carrie	d,	-	-	105,1	150					
Total mileage of loc	al freight,	-	-	-	-		882,582				
Total freight m	ileage, or to	ns ca	rried	one m	ile,	-	882,582				
Average ton haul for Average ton haul for			-	•			8.39 8.39				
Average amount rec			n har	.1	-	-		<b>8</b> 0 64.76			
Average rate per tor	normile r	on et	PA for	ilonal	fraia	h+		07.71			
Average rate per to								07.71			
myorago rato por tor	por mino, i	00011	ou ro		orgine	, -		01.11			
:	Freight Forw	neded	lat M	lichiaa	n Stai	tions					
•	rogio roi di			. soresgu	70 7500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Forwarded, Tons.			
Grain,		-	-	-	-	-		1,416			
Flour,		_	-	-	-	-		1,374			
Provisions (beef, po	rk, lard, etc.	.),	-	-	-	-		3,358			
Animals,		-	-	-	-	-		1,248			
Other agricultural p	products,	-	- '		-	-		2,304			
Lumber and forest	<del></del> -	-	-	-	-	-		53,245			
Coal, Ores (copper), _		-	-	-	· <b>-</b>	-		8,567			
Ores (copper),		-			٠,			19,094			
Manufactures,—arti							۔ ۔	3,109			
Merchandise and ot	ner articles i	ot e	nume	rated	80046	θ,		11,435			
Total forwarde	d, _	-	-	-	-	-		105,150			
ma	nmana of Audi	alas "	Dage on	omtod.	Tarbi-	a Da	a d				
10	nnage of Arti	UK 5 1	. runaji	or teu-	-1916667	e not		_			
a .							Tons.	Per Cent.			
Grain,		-	-	-	-	-	1,416				
Flour,		-	-	•	-	-	1,374				
Provisions (beef, po	rk, lard, etc	.).	-	-	-	-	3,358				
Animals,		-	-	-	-	-	1.248	1.09			
Other agricultural p		-	-	~	-	-	2.304				
Lumber and forest	products,	-	-	-	-	-	53,245				
Coal,		-	-	-	-	-	8,567	8.15			
Ores (copper), _ Manufactures,—arti	Jolog shimm-d	-   <b>4</b>	- - ~-	nt of	- nno3.	-	19,094	18.16			
tion,	отов вптЬрес	r TLO	m ho	TTO OF	brog	uU-	3,109	3.00			
Merchandise and of	ther erticles	not	Ann»	- nareta	- d aha	- VA	11,435				
PEDICHARIATED SHOT OF	THOI WILLIAM	ПОГ	опип	101 W 10	. au	٠٠,	11,200	10.07			
Total tons carr	ried, -	-	-	•	-	-	105,150	100.00			

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company runs on this road, paying one and one-half times first-class freight rates for the transportation of express matter,

which is received and delivered by this Company at the depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Fifteen miles, belonging to this Company.

STATE OF MICHIGAN, SS. COUNTY OF HOUGHTON,

Charles A. Wright, General Manager of the Mineral Range Railroad Co., being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, CHARLES A. WRIGHT.

Subscribed and sworn to before me this 26th day of April, A. D. 1888.

[L. S.] CHARLES D. HANCHETT,

Notary Public.

#### ANNUAL REPORT

#### OF THE

# TOLEDO, ANN ARBOR & NORTH MICHIGAN RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed May 5, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. M. ASHLEY, Toledo, Ohio.

Vice President, A. W. WRIGHT, Alma, Mich.

Secretary, C. F. COOK, Toledo, Ohio.

Acting Auditor, D. M. MONJO, Toledo, Ohio.

Treasurer, B. F. JERVIS, Toledo, Ohio.

General Manager, H. W. ASHLEY, Toledo, Ohio.

Superintendent of Telegraph, J. B. CONNORS, Toledo, Ohio.

Cashier, J. M. MELICK, Toledo, Ohio.

General Pass. and Freight Agent, W. H. BENNETT, Toledo, Ohio.

#### DIRECTORS.

J. M. ASHLEY, Toledo, Ohio.

DAVID ROBISON, JR., Toledo, Ohio.

JOHN CUMMINGS, Toledo, Ohio.

T. W. CHILDS, Toledo, Ohio.

J. M. ASHLEY, JR., Toledo, Ohio.

H. W. ASHLEY, Toledo, Ohio.

A. W. WRIGHT, Alma, Mich.

H. S. DEAN, Ann Arbor, Mich.

Term expires April 20, 1888.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Oct. 10	6,∶	1880,	ameno	led	Nov.	30, 188	36.
Number of stockholders at date of last election,	-	-	-	-	-		145
Number of stockholders in Michigan at same date	-		-	-	-		10
Amount of full paid stock held in Michigan at same date	te,	-	-	_	- 1	11,000	00
Date of annual meeting of stockholders,—Third Wedne	bas	ay in	April.				
Fiscal year of Company ends December 31.							
General offices of the Company are located at Toledo, C	Oh	io.					

# GENERAL EXHIBIT.

Total income,			I	EBIT	•	Cradit. \$483,284	
Total expenses, including taxes,	-	-	<b>\$</b> 342	<del>,</del> 605	87	<b>4100,201</b>	
Net income,	-	-	-	-	-	\$140,678	88
Interest on funded debt, Rentals of buildings, tracks, etc.,	-	-	184	,800	00	52,468	20
	•	•	-	-	_	_	
Balance for the year,	-	-	-	-	-	8,347	08
Balance (profit and loss) last year, Balance forward to next year,		-	\$55	,461	06	47,113	98
			<b>\$</b> 55	461	06	\$55,461	06
ANALYSIS OF	CAP	ITAL	STOCK				
	ticles \$100		sociatio	n,	-	<b>\$4,040,000</b>	00
No. of shares issued, Amount paid in on common, _	<b>4</b> 0, -	400 -	<b>\$4,</b> 040	,000	00		
Total amount paid in as per boo	ks of	the (	Compan	y,	-	4,040,000	00
Paid in per mile of road owned pany.—miles, 181.			\$22	.320	44		

# MICHIGAN RAILROAD RETURNS.

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage gold bonds, T., A. A. & G. T. R'y First mortgage gold bond, T., A. A. & N. M. R'y First mortgage gold bond, T., A A. & N. M. R'y Cirst mortgage gold bond, L. A. Mt. P. & N. R'y	6 per cent	Jan. 1, 1321 May 1, 1924 May 1, 1924 Sept. 1, 1916	New York city New York city New York city New York city	\$1,280,000 00 1,800,000 00 520,000 00 400,000 00
Total funded debt				\$3,780,000 00

# UNFUNDED DEBT.

For what Incurred.	Is the ≤ame to be Funded, or How Liquidated.	Amount.
For construction		\$195,971 25
For equipment		164,235 08
For real estate		
For renewals		88,904 38
For miscellaneous		154,645 85
		29,200 00
•		\$632,956 42

#### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	<b>\$3,780,000</b> 632,956	
Total debt liabilities,	-	-	-	•	-	-	-	\$4,412,956	42
Amount of debt liabilities	-	24,380	97						
Total amount of stock and Stock and debt per mile of			-	- -	- -	- -	-	8,452,956 46,701	

# GENERAL BALANCE SHEET,-DR.

						<b>\$8,267,471</b>	71
Equipment account, .	-	-	-		397,683 18		
Construction account,	-	-	-	-	<b>\$</b> 7,869,788 <b>5</b> 3		

1001.] 1011111	ж, д	1111 AL	DOL	<b>66 140</b>		ши	UAN	IGIL	1 11 23	.1 00.	
Cash items: Cash, Due from ag	ents,	• •	-	-	-	-	6	31,748 33,763	74	<b>\$</b> 95,512	48
Other assets: Materials an Debit balance	d sup e fron	plies, n comp	anies	and i	- ndiv	iduals,	84	2.703	23	·	
										145,433	29
Total,	_	-	-	-	-	-	-	-	-	\$8,508,417	48
		GE	NERA	[. BA]	r. a Ne	CE SH	eer	CR			
		(112	MELLER	L DA	LIZIN		, ا كاكا	,—-OII			
Capital stock,		-	-	-	-	-	-	-		\$4,040,000	
Funded debt,	-	-	-	-	-	-	-	-	-	<b>3,</b> 780,000	-00
A 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3										\$7,820,000	90
Unfunded debi							•		ΔΔ.		
Interest unp		-	-	-	-	-	<b>4</b> 5%	29,200 '1,710	O'V		
Notes payab Vouchers an	16, d 0000	-	-	•	-	-		9,069			
Other liabilitie	u accc	os fo	- 110mg)		-	-	20	9,009	æ i		
~ , ,	•			•	-			2,364	99		
Due J. M.	A ah las	- 7 Pro	- eidant	for	roll	ing	·	2004	22		
stock, etc.					1011	тпВ	19	0,611	90		
BLOOK, OU.	, ruin	IBHOU	by m	щ	•	-		,011		632,956	49
Profit and lo	88 OF	incom	e acco	unts,	-	-	-	-		55,461	
Total,	-	-	-	_	_	-	_	-	-	\$8,508,417	48
		COGTI	() TO T	O 4 D	A NIT	POTT	DME	NO			
		COST	Or R	UAD	ANL	EQUI	PME	NT.			
Total Cost for C	onstru	ction a	nd Eq	uipme	nt of	Road, d	and B	ranche	s Bı	iilt by Compa	ıny.
Total expended	for c	onstru	action	and o	equij	pment,	<i>-</i> ,.		-	<b>\$</b> 8,267,471	71
Average cost ]	-			•		_		igs,—	181		00
miles), - Proportion of	- oost f	or Mia	hicon	117	e mi	- lon	-	-	-	45,676 8,039,086	
r robornon or	COST	or Mile	півяп	,17	о ші	ies,	-	•	-	8,089,080	00
CHARG	ES Al	ND CR	EDIT8	TO P	ROP	ERTY	DUR	ING T	HE	YEAR.	
				MAIN	LII	NE.					
Extensions,	-	-	-	-	-	-	-	-	_	\$896,786	72
New buildings,	-	-	-	-	-	-	-	-	-	20,029	06
New fences,	-	-	-	-		-	-	-	-	10,840	55
New locomotiv	<b>es</b> ,	-	-	-	-	-	-	-	-	20,804	30
New cars,	-	-	-	-	-	-	-	-	-	1,910	21
Total,	_	•	_	_	_	_	_			\$950,370	84
-		-, 		-	-	- aha	_	-	-		
Total char	_		_		248 i	aDOV0,	-	-	-	\$950,370	
Net addition to	prop	erty a	ccoun	t,	-	-	-	-	-	<b>\$</b> 950,370	84

# ANALYSIS OF EARNINGS.

# PASSENGER EARNINGS.

Main line and branch	hes:									
Local fares,	_	_	-		_	_	_		\$132,666	93
Through fares,	_	-	_	_	_	_	_	_	1,263	
,						-	-	٠.		
Total passenger	fares,	-	•	-	-	-	_	-	<b>\$133,930</b>	49
T3 11										
Express and baggs	_	-		-	-	-	-	-	8,208	
Mails,	-	-	-	-	-	-	-	-	10,925	70
Total passenger	aarnii	n ora						•	\$153,064	10
Total Passongo.	Out III	-B-,	-	•	•	-	-	-	<b>4100,00</b>	19
Proportion for Mic	higar	١,	-	_	_	\$148,	844	99		
Per train mile.	-	´_	_	_	_	•		63.01		
Per train mile, Per mile of road,	_	_	_	_	_		845			
,					-			•		
		FR	RIGHT	RAR	NINGS.					
Main line and branc	hae.			2322	1411400					
Local traffic, -	цов.					<b>\$301</b> ,	910	KN		
Through traffic,	-	•	-	-	-		327			
THIOUGH CLAME,	-	•	-	-	-					
Total traffic,	_	_	_	_	_	<b>\$</b> 308,	547	18		
Other sources freigh	t dep	artin(	ent,	-	-	žI,	673	<i>3</i> 8		
Total freight ear	rning	в,	-	-	-	-	-	-	<b>\$330,220</b>	56
Proportion for Mich	igan.	_	_	_		\$321,	118	12		
<b>.</b>	_	•	-	-	-	<b>VO.U</b> I,		56.73		
Per train mile, Per mile of road,	-	-	-	•	-	1.	824			
- 01 milo 01 100d,	•	•	-	-	-	-,	0.01	_		
Total transports	tion	e <b>ar</b> ni	ngs,	-	•	-	-	-	\$483,284	75
Transportation earni	ngs ne	ar mi	le of ro	ad	<b>-181</b> .	<b>\$</b> 2,	670	08		
Transportation earni	nga n	er tr	ain mi	le.	,	<b>V.</b> ,		06.55		
Miscellaneous receipt	a from	n one	rating	acco	unt.		_	•0.00		
other than for trai										
From rentals of trac					_	52.	<b>468</b>	20		
			<b>,</b>		_	J.,		_		
Total earnings f	rom o	perat	tion of	roa	d,	•	-	-	\$535,752	95
Total earnings per n	nila of	road	ı	_	_	<b>≜</b> 9.	959	96		
Total earnings per tr	rain n	nila	-	-	-	₩~,		18.11		
Proportion of taxabl				- Iichi	ran	· 520,				
Total taxable earning	o cari	n mi		rioni	gau, in	<i>0.</i> 00,	00 <del>1</del>	91		
37. 1.	rge h	у ш.	16 01	IUau	. 111	9	953	5.4		
Michigan, -	•	-	-	-	-	Α,	<i>5</i> 00	υ <del>τ</del> _		
Total income fr	om al	l sou	rces,	_	-	-	-	_	<b>\$</b> 535,752	95
Proportion of incom	e for	Mich	nigan			<b>\$5</b> 20,	984	97		
Troborator of Incom	O IUI	MILL	Ban,	-	-	₩₩.0,	·/U-E	<i>.</i>		

# ANALYSIS OF EXPENSES.

# CLASS 1. - Maintenance of Way and Buildings.

Repairs of roa Renewals of ti	<b>68</b> ,	-	-	_	-	-		;		\$27,151 4,948	85			
Repairs of bri	dges, ii	aclud	ing ci	ulveri	s an	d catt	e gu	ards,	-	8,101				
Repairs of fen	ces, ros	d cro	ossing	s, an	d sign	18,	_	-	-	3,267				
Repairs of bui	ldings,	_		-	_	_	_	-	-	3,192	20			
•	0 /													
Total,	-	-	-	-		-	-	-	-	<b>\$</b> 46,661	48			
CLASS 2.—Maintenance of Motive Power and Cars.														
Repairs of loc	omotiv	e <b>s</b> ,	-	-	-	-	_	_	_	\$27,791	05			
Repairs of pas	senger	cars,	_	_	_	_	_	_	_	8,372	97			
Repairs of fre	ight car	rs.	_	-	_	-	_	-	_	15,254				
	<b>6</b>	,	_		_	_	_	_	_					
Total,	-	-	-	-	-	-	-	-	-	<b>\$51,418</b>	89			
	C	LASS E	3.— <i>Co</i>	nduct	ing Tr	anspor	tatio	n.						
Fuel for locom	ntives									<b>\$23,</b> 182	4.			
Water supply,	LODI VOS,	-	-	-	-		-	-	-	2,558				
			-	-	-	-	-		-					
Oil and waste, Locomotive se Passenger trai Passenger trai Freight train	•	-	-	-	-	-	-	•	-	3,687				
Tocomoriae se	rvice, .	-	•	-	-	-	-	-	-	24,144				
Passenger trai	n servi	ce,	-	-	-	-	-	-	-	8,198				
Passenger trai	n supp	li <b>es</b> ,	-	-	-	-	-	-	-	1,126				
Freight train	service	,	-	-	-	-	-	-	-	20,385	72			
Freight train	supplie	8,	_		-	-	-	-	_	343	03			
Mileage of fre	igĥt ca	rs.		_	_	_	_	_	_	24,919				
Telegraph exp	enses (	main	tenan	ce an	d one	ratino	۸.	-		10,214				
Damage and l	oss of f	reigh	t and	hage	rage		//	-	-	148				
Damages to p	monomin	and		nage	gago,	-	•	-	-	8 <b>4</b> 9				
Personal injus	ropervy riog	anu	Carnic	,	-	-	-	-	-	335				
Personal injuing Agents and station supplies	108,	-	-	-	-	•	-	-	-					
Agents and str	ation se	LAICE	•	-	-	-	-	-	-	17,125				
Station suppli	es,	-	-	-	-	-	-	-	-	1,297	92			
Total,	-	-	-	-	-	-	-	-	-	<b>\$</b> 138,516	06			
		(	CLASS	4.— <i>G</i>	enera	l Exper	1868.							
Salaries of the	gener	al offi	cars o	f the	com	nen v				\$12,641	66			
Salaries of cle	rka in	Yanar	ol Affi	2		, r.,	-	-	-	13,494				
Low orners	TEO IT (	Somor	ar om	ocs,	-	-	•	-	-	2,761				
Law expenses,	-	-	-	-	-	-	-	-	-					
Insurance, Stationery and	,.	-	-	-	-	-	-	•	-	2,105				
Outside agenc	ı prıntı	ng,	•		-	-	-	-	-	4,713				
Outside agenc	ies and	adve	rtisin	g,		-	-	-	-	437				
Contingencies,	, -	-	-	-		-	-	_	-	61,492				
Taxes, _	-	-	-	-	-	-	-	-	-	8,362	22			
Total,	-	_	-	-	-	-	-	-	-	\$106,009	44			
60														

# RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and car Conducting transportation, General expenses, including taxes,	Per cent of Expenses.  -
Total operating expenses and taxe	s, _ 100.00 \$342,605 87
Operating expenses and taxes per road, Operating expenses and taxes per train for trains earning revenue,—453,590 Proportion of operating expenses and taxes	- \$1,892 85 mile run, 3 miles, 75.53
Michigan: Main line,	333,141 60
Total proportion of expenses for	Michigan, \$333,141 60
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	- 63.94 1,067 12 42.58

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Toledo, Ohio, to Ann Arbor Mich., July, 1878.
From Ann Arbor, Mich., to South Lyon, Mich., August, 1881.
From Owosso, Mich., to St. Louis, Mich., August, 1884.
From St. Louis, Mich., to Mt. Pleasant, June, 1886.
From Leland, Mich., to Owosso, Mich., October, 1886.

	MAI	I LIN	E.			Miles, 100ths.	Miles 100ths
In Michigan:						ALDON, IOUTH,	A1104. 1001415.
From Alexis to Mt. Pleasant, In Ohio:	-	-	-	-	-	165 40	
From Toledo to Alexis,	-	-	-	-	-	5 00	
Total length completed,	. <b>-</b>	-	• .	-	-		170 40
	BRA	NCHE	3.				
South Lyon, from Leland to S		Lyon	وا	-	_	8 00	
Macon, from Macon to Quarr	٧.	_	_	-	_	1 61	
St. Louis, from S. V. & S. cro		to St	t. Lo	ais,	_	1 38	
•	•	•		•			
Total length of branches ov	vned	by Co	mpar	1 <b>y</b> ,	-		10 99

		•
•	Miles, 100ths	Miles. 100tbs.
Total length of branches owned by Company in Michigan,	10 99	
Total length of road belonging to this Company,		181 39
Total length of road belonging to this Company in		101 00
Michigan,	176 39	
Aggregate length in Michigan of sidings, spurs, and	110 00	
other tracks not above enumerated,	21 78	
Outor bracks how above that the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the court of the	W1 10	
Aggregate length of tracks in Michigan belonging to		
this Company, computed as single track,	198 17	
Gauge of track, 4 feet 81 inches.	100 11	
•	tal Wilse T	n Michigan.
		176 39
Total miles operated by the Company,	101 99	170 39
Number of Bridges and Trestles in Michigan.		
Wooden bridges, number of, 99; aggregate length, f	oot	1,034
		312
Combination bridges, number of, 1; aggregate, length, f Wooden trestles, number of, 55; aggregate length, fe		
Wooden trestles, number of, 55; aggregate length, fe	ю,	7,019
Total, 155;	-	8,365
Draw Bridges in Michigan.		
II 1: 2		<b>N</b> T
How many on your line?	-	None.
Crossings—Railroad and Highway.		
What railroads cross your road at grade in this State, and	at what l	locality?
L. S. & M. S. R. A., at Monroe Junction.		
L. S. & M. S. R. R., at Dundee Junction.		
W. W. R'y, at Milan Junction.		
D., L & N. R. R., at St. Louis Junction.		
D. L. & N. R. R., at Howell Junction.		
D., G. H. & M. R. R., at Durand.		
Chicago & Grand Trunk R. R., at Durand.		
D., G. H. & M. Coal Mine track R. R., at Corunna.		
M. C. R. R., at Owosso Junction.		
What railroads cross your road either over or under your g	rada in th	nis State.
and where?		
Over grade:		
Michigan Control D D of Ann Arbon		
Under grade:		
D., L. & N. R. R., at Howell.		
Number of crossings of highways at grade in this State	at	
which there are gates or flagmen,		3
Number of cro-sings at which there are electric or automa	tic	•
signale,		2
What pattern or patterns in use?	-	
Ordinary one-arm swing gates.		
Number of crossings of highways over or under railro	oad	
(over, 1; under, 1),	•	2
(,-,, -/,	-	-

410		MIC	HIGH	IN RA	LILRU	AD R	ETUR	ND.		[Dec. 81.
Number of hig Number of hig Have safety-gus Are your frogs Session Laws How are they t Oak or pine	hway ards h and s of 1 reate	bridg been e guard 1883? id?	rected rails	es the lat o block	an 18 ver-h	feet a	bove struc	tions	· _	1 None. Yes. Yes.
				S	tation	8.				
Number of states			iole li -	ne, -	- -		-	-	-	39 37
				E	mploye	8.				
Number of per	sons	regul	arly e	mplo	ved o	n all 1	coads	opera	ted	
by Company,	incl	uding	offic	ials,		<u>-</u>		-	-	464
Same in Michig	gan,	, <b>-</b>	-		_	_	-	-	-	297
Classify your e	mplo	yés as	per f	ollow	ing li	st:				Number
Baggagemen		_	_	_			_	_	_	10
Brakemen,			-	-	-	-	-	-	-	47
Conductors.	_	_	_	_		_		-	-	24
Engineers, Firemen, Laborers,	-	-	-	-	-	-	-	-	-	25
Firemen,	-	-	-	-	-	-	-	-	-	26
Laborers,	-	-	-	-	-	-	-	-	-	127
Shopmen, Yardmen,	-	-	-	-	-	-	-	-	-	72
Others,	-	-	-	-	-	-	-	-	-	29 10 <b>4</b>
0 0=010,	-	-	_	-	-	-	-	-	-	1
			REPA	IRS A	ND R	ENEW	ALS.			
			Fe	ncing	in M	ich <b>i</b> gar	<b>.</b> .			
TT			,	_						0.54
How many mile Give the number sides of your needed:	or o	f mile	es rec	quired	to c	omple he cou	te fe	nce b in wh	oth ich	<b>354</b>
Land throug cannot be main	h wh	ich th	e roa	d run	s is fe	nced,	excel	ot at s	uch poi	nts as fence
The pattern menced. It is	is no	t all s	tanda	ird, n	or all	l com	pleted	d whi	ch has	been com-
	•					! Traci			0	
Number of tra Average length Average number Number of new	of ser of	ection men	s (mi	iles), h sec	tion g	ang,	- - ho wa	- -		24 7 4 21 079
Number of nev							пе уе	ar,	-	21,079 17,685
Average number							-	-	-	120

What pattern or patterns have you adopted for use?

Have tried McGee and Blocker, without satisfactory result.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the year,			236,486
Miles run by freight trains during the year,			197,867
Miles run by mixed trains,			19,253
m / 1 . 1			450 500
Total mileage of trains earning revenue,	•		453,596
Passenger Traffic.			
,	Numbers at	nd Mile	s. Rate.
Number of through passengers carried,	Quantities 260	_	
Number of local passengers carried,	152,219	-	
number of local passengers carried, .	102,210		
Total number of passengers carried,	152,479	)	
Total passenger mileage, or passengers carried of	na mila	5 017 09	29
Average distance traveled by each passenger,	, ши	. 9,011,0%	32.90
Average amount received from each passenger.			- <b>*</b> 0 87.84
Average rate of fare per mile for through passe	ngers.	. <del>-</del>	02.57
Average rate of fare per mile for local passenge	ers.		02.67
Average rate of fare per mile for all passengers	ر۔ ۔ ۔ وا		_ 02.66
Freight Traffic.			
-			
Number of tons of through freight carried, Number of tons of local freight carried,	3,478 535,618		
Total tons of freight carried,	539,098	- 3	
Total mileage of through freight,		582,4	100
Total mileage of local freight,	•	27,287,7	
Total militage of room from the			<del></del>
Total freight mileage, or tons carried one n	nile,	27,870,1	.63
Average ton haul for through freight,		. 1	67.46
Average ton haul for local freight,	_		50.95
Average ton haul for all freight,			51.70
Average amount received for each ton haul,		-	57.23
Average rate per ton per mile, received for thro	ugh frei	ght, .	_ 01.25
Average rate per ton per mile, received for loca	l freigh	Ē, _	_ 01.10
Average rate per ton per mile, received for all f	reight, -	. <u>-</u>	_ 01.10
Freight Forwarded at Michiga	n Station	18.	Forwarded, Tons.
Grain,		. <u>-</u>	. 22,192
Flour,		-	8,561
Provisions (beef, pork, lard, etc.),	_	. •	_ 808
Animals.			. 1,544
Other agricultural products,			4,236
- · · · · · · · · · · · · · · · · · · ·			

								Forwarded Tons.
Lumber and forest product	8,	_	_	-	-	-		49,471
Coal,	_	-	_	_	_			5,273
Plaster, lime and cement,	-	_	-		_	_		1,810
Salt,	_	_	_	_	_	_		559
Petroleum,	_	_	_	-	_	-		701
Railroad iron, iron and stee	l rai	ls.	-	_	_	-		5,497
Pig and bloom iron,	_	_	_	_	_	_		170
Other iron and castings,	_	_	_	_		-		1,314
Ores,	_	_	_	_	_	_		458
Stone, brick and sand,	_	_	_	_	_	_		5,708
Manufactures,—articles shi	pped	from	poin	t of p	roduc	tion.		12,873
Merchandise and other arti								45,778
						•		
Total forwarded,	-	-	-	-	-	-		166,962
Tonnage of						_		
'I'mmaae of								
10mage of	Д/ 00	C+00 1	тинвр	oriea-	-Entit	re Avu		
<u>.</u>	Д/ 01	C+68 I	тинар	oriea-	-Eaut	re mou	Tons.	Per Cent.
Grain,	_	-	- -	oriea- -	- <i>Eaui</i> -	- HOU	Tons. 38,034	7.05
Grain,	- -	-	- - -	- - -	- <i>EAUI</i> - -	- -	Tons. 38,034 24,455	7.05 4.53
Grain, Flour, Provisions (beef, pork, lard	- -	-	- - -	- - -	- <i>Eaut</i> - - -	- - -	Tons. 38,034 24,455 860	7.05 4.53 .16
Grain, Flour, Provisions (beef, pork, lard Animals,	-  -  , etc	-	- - - -	- - - -	- <i>Eaut</i> - - - -	- - - -	Tons. 38,034 24,455	7.05 4.53 .16 .31
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product	-  , etc  -  s,	-	- - - - -	- - - - -	- Eauti - - - - -	- - - -	Tons. 38,034 24,455 860	7.05 4.53 .16
Grain, Flour, Provisions (beef, pork, lard Animals,	-  , etc  -  s,	-	- - - - -	- - - - -	- Ealiti		Tons. 38,034 24,455 860 1,688 16,352 66,812	7.05 4.53 .16 .31
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal,	- l, etc - s, ss,	-	- - - - - -	- - - - - -	- Entition		Tons. 38,034 24,455 860 1,688 16,352	7.05 4.53 .16 .31 3.03
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product	- l, etc - s, ss,	-	- - - - - -	- - - - - -	- Entiti	- - - - - - -	Tons. 38,034 24,455 860 1,688 16,352 66,812	7.05 4.53 .16 .31 3.03 12.39
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt,	- l, etc - s, ss,	-	- - - - - - -	- - - - - - -	- Entity	- - - - - -	Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036	7.05 4.53 .16 .31 3.03 12.39 46.01
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement,	- l, etc - s, ss, -	-	- - - - - - -	- - - - - - -	- Entity	- - - - - -	Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511	7.05 4.53 .16 .31 3.03 12.39 46.01 .65
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee	- l, etc - s, ss, - -	- - - - - -		- - - - - - -	- Entity	- - - - - - -	Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579	7.05 4.53 .16 .31 3.03 12.39 46.01 .65
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee	- l, etc - s, ss, - -	- - - - - -	- - - - - - - -	- - - - - - - -	- Entity	- - - - - - -	Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579 1,656	7.05 4.53 .16 .31 3.03 12.39 46.01 .65 .11
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum,	- l, etc - s, ss, - -	- - - - - -		- - - - - - - - -	- Entity		Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579 1,656 12,372	7.05 4.53 .16 .31 3.03 12.39 46.01 .65 .11 .31
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee Pig and bloom iron,	- l, etc - s, ss, - -	- - - - - -		- - - - - - - - - - - -	- Entity		Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579 1,656 12,372 7,454	7.05 4.53 .16 .31 3.03 12.39 46.01 .65 .11 .31 2.29 1.39
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee Pig and bloom iron, Other iron and castings, Ores,	- l, etc - s, ss, - -	- - - - - -		- - - - - - - - - - -	- Entity		Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579 1,656 12,372 7,454 11,708	7.05 4.53 .16 .31 3.03 12.39 46.01 .65 .11 .31 2.29 1.39 2.17
Grain, Flour, Provisions (beef, pork, lard Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and stee Pig and bloom iron, Other iron and castings,	- s, ss, - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -					Tons. 38,034 24,455 860 1,688 16,352 66,812 248,036 3,511 579 1,656 12,372 7,454 11,708 458 11,265	7.05 4.53 .16 .31 3.03 12.39 46.01 .65 .11 .31 2.29 1.39 2.17

# ADDITIONAL QUESTIONS.

Merchandise and other articles not enumerated above,

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. General freight taken at depots, only.

Fixed rate per month.

Total tons carried,

72,548

539,093

13.46

100.00

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belon g?

Toledo, Ann Arbor & North Michigan R'y, miles, \_\_\_\_ 171

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

December 11. W. Laffler, farmer, Azalia, drunk, asleep on track. September 6. O. R. Chew, brakeman, Howell; on top of box car contrary to rules; struck overhead bridge.

#### INJURED.

February 2. M. Haley, brakeman, Samaria; carelessness

February 10. Jas. Wellon, brakeman, Ann Arbor; carelessness.

February 24. J. Garrett, brakeman, Owosso; carelessness.

April 2. H. Reeder, brakeman, Elsie; carelessness.

May 27. M. Bright, conductor, Vernon; caboose derailed.

June 10. Jno. Burg, boy, Ann Arbor, getting on moving freight train.

June 24. A. Brady, farmer, North Star; wagon struck by train, Brady injured; carelessness.

August 8. J. Pendegrast, brakeman, Ann Arbor; slipped and fell under

train.

August 30. G. H. Ansted, brakeman, Hamberg; careless in coupling. October 6. Chas. McCarthy, brakeman, Owosso; careless in coupling.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.			
Causes of Accident.	Passengers.	Passengers. Employés. Other		Passengers.	Employés.	Others.	
Collisions							
Coupling cars					2		
Derailments					1		
Falling from trains							
Frogs							
Getting on and off trains					1		
Highway crossings		ļ					
Miscellaneous					• 4		
Overhead obstructions		1					
Trespassers on trains							
Trespassers on tracks			1				
Total		1	1		8		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	_	_	_	2
Number of persons injured during the year,		-		_	10
Number of casualties purely accidental,	-	-	-	-	2
Number resulting from lack of caution, car	elessnes	8, 01	· misc	on-	
duct,	_	-	_	-	10
Persons killed or injured while intoxicated,	-	_	-	-	1
Trespassers and tramps killed or injured,	-	_	-	_	1
Suicides,	_	_	_	_	

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1	7	8
Conductors		1	1
Engineers			
Firemen			
Laborers			
Shopmen	,		
Yardmen	!		
Not classified above	1	2	. 8
Total	2	10	12

STATE OF OHIO, COUNTY OF LUCAS, ss.

Henry W. Ashley, General Manager, and George B. Parke, Auditor, of the Toledo, Ann Arbor & North Michigan Railway Co., being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, H. W. ASHLEY, General Manager. G. B. PARKE, Auditor.

Subscribed and sworn to before me this 2d day of May, A. D. 1888.

[L. S.] ISAAC N. HUNTSBERGER,

Commissioner of Deeds for Mich., residing at Toledo, Lucas Co., Ohio.

#### ANNUAL REPORT

#### OF THE

# GRAND RAPIDS & INDIANA RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed May 28, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and Gen. Manager, W. O. HUGHART, Grand Rapids, Mich. Vice President and Treasurer, W. R. SHELBY, Grand Rapids, Mich. Secretary and Assi't to President, J. H. P. HUGHART, Grand Rapids, Mich. Auditor, F. A. GORHAM, Grand Rapids, Mich. Division Superintendents:

J. M. METHEANY, Northern Division, Grand Rapids, Mich.

P. S. O'ROURKE. Southern Division, Fort Wayne, Ind. Chief Engineer, G. S. JOHNSON, Grand Rapids, Mich. General Passenger Agent, C. L. LOCKWOOD, Grand Rapids, Mich. General Freight Agent, C. E. GILL, Grand Rapids, Mich. General Counsel, T. J. O'BRIAN, Grand Bapids, Mich.

#### DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.
HARVEY J. HOLLISTER, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
J. G. WAIT, Sturgis, Mich.
S. S. COBB, Kalamazoo, Mich
F. B. STOCKBRIDGE, Kalamazoo, Mich.
J. N. MCCULLOUGH, Pittsburgh, Pa.
WILLIAM SHAW, Pittsburgh, Pa.
THOMAS D. MESSLER, Pittsburgh, Pa.
GEORGE B. ROBERTS, Phildelphia, Pa.

JOHN P. GREEN, Philadelphia, Pa. HENRY H. HOUSTON, Philadelphia, Pa. CHAS. F. MUHLER, Fort Wayne, Indiana.

Term expires March 6, 1889.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—April 1, 1855.	
Number of stockholders at date of last election,	716
Number of stockholders in Michigan at same date,	265
Amount of full paid stock held in Michigan at same date,—Cannot answer.	
Date of annual meeting of stockholders,—First Wednesday in March.	
Fiscal year of Company ends December 81.	
General offices of the Company are located at Grand Rapids, Mich.	

#### REMARKS.

The Bay View, Little Traverse & Mackinaw Railroad was purchased by this Company under foreclosure proceedings and decree of sale, on the 17th day of January 1888, and its records and accounts will hereafter be merged in those of the main line.

#### GENERAL EXHIBIT.

•				DEBIT.		CREDIT.		
Total income,	,	- -	• •	<b>\$1,</b> 66	86,101	77	<b>\$2,535,456</b>	74
Net income,	-	-	-	-	-	-	\$869,354	97
Interest on funded debt,	-	-	-		4,100			
Interest on unfunded debt,	_	-	-	1	6,500	00		
Rentals of buildings, tracks, et	С.,		-		5,500	00		
5, ,							766,100	00
Balance for the year,	-	-	-	-	-	-	\$103,254	97
Balance (profit and loss) last ye Items not included in above, as		- OWR:	-	-	-	-	2,441,625	48
Advances to C. R. & F. W. R			1997	•	6,644	63		
					•			
Sundry old accounts paid dur				4	7,378	70		
Prop. of Mackinaw Transpor			m-					
pany's profits for year 1887,		•	-	-	-	-	5,629	
Balance forward to next year,	-	-	-	-	-	-	2,386,764	75
				\$2,49	5,648	81	\$2,495,648	81

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, No. of shares issued, 49,883	<b>\$5,000,000</b>	00
Amount paid in on common, \$4,988,300 00		
Total amount paid in, as per books of the Company,	4,988,300	00
Paid in per mile of road owned by Company,—miles, 403.50, \$12,362.55		

# ANALYSIS OF DEB! ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mort, guaranteed bonds, Oct. 1, 1869	7 per cent	1899	New York.	\$3,934,000 00
First mort, unguaranteed bonds, Oct. 1, 1869	7 per cent	1899	New York.	1,441,000 00
Six per cent mort. bonds, August 1, 1884	6 per cent	1899	New York	2,700,000 00
Five per cent mort. bonds, September 1, 1884	5 per cent	1924	New York .	3,287,000 00

# UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated	Amount.
For construction	(Acc't Mackinaw Extension) to be funded	\$275,000 <b>0</b> 0
For equipmen		
For real estate	To be paid	145,000 00
For renewals		
For miscellaneous	To be paid:	180,000 60
For current balances	Traffic balances, vouchers, pay rolls and coupons { maturing January 1, 1888	434,358 63
Total unfunded debt		\$1,034,394 87

# RECAPITULATION.

Total funded debt,  Total unfunded debt,	-	-	-	-	-	-	- \$11,342,000 00 - 1,034,394 37
Total debt liabilities,	_	_	_	_	_	-	. \$12,376,394 37

1887.] GRAND	RAPIDS &	INDL	ANA	RAILROAD (	CO.	•	485
Amount of debt liabilitie	es per mile o	of ros	ıd,—	403.50 miles,	-	\$30,672	60
Total amount of stock an Stock and debt per mile	nd debt, of road,	- -	-			17,364,694 43,035	
GEI	NERAL BAL	ANO	е ѕн	EET,—Dr.			
Construction account,		_	_	\$12,779,329	40		
Equipment account,		-	-				
Other investments (speci	fying same)	:					
Capital stock Bay View	v, Little Tr	avers	se ot	95 400	^^		
Mackinaw Railroad ( Bonds of Bay View, Litt	∪0., la Travarsa	& M:	ack-	25,400	UU		
inaw Railroad Co.,			-	2,491	81		
Capital stock Mackinaw	Transportat	tion (	Οo.,		67		
Capital stock Mackinaw	Island Hote	l Co.	, -	34,500			
Capital stock Muskegor							
Indiana Railroad Co., Capital stock Grand Rap	:a. T. a:	- 1/	· •	930	00		
istee Railroad Co.,	ias, indians	COL DO	Lan-	1,350	ΛΛ		
istee italiioad Co.,		-	-	1,000		\$14,351,821	60
Cash items:				•		¥14,001,0%1	•
Cash,		_		\$255,208	51		
Oasn, Bills receivable, - Due from agents, -		-	-	642 61,993	43		
Due from agents,	- / -	-	-			018 044	
Other assets:						317,844	50
Materials and supplies	_			\$122,758	47		
Debit balances from o			ndi-	<b>V</b> 2.0.0,100			
viduals,			-	203,017	55		
<b>D</b> 0: 11						325,776	
Profit and loss account,		-	-		-	2,362,033	47
Total,		-	-		-	<b>\$</b> 17,357,475	59
GE)	NERAL BAL	ANC	E SH	EET.—Cr.			
•				, 01		<b>A</b> 4 00E 001	99
Capital stock, Funded debt,		-	-		-	<b>\$4</b> ,985,081 11,342,000	
Unfunded debt:		-	-		-	11,042,000	vv
Interest unpaid (inclu	uding inter	rest	due				
January 1, 1888),		-	-	<b>\$144</b> ,265			
Notes payable,		-	-	180,000	00		
Vouchers and account	s (including	Dec	em-	010 015	014		
ber pay rolls), - Other liabilities (list as f	ollowe).	-	-	216,215	87		
Bond and mortgage on			_	141,135	74		
Mackinaw loan,		, - -	-	275,000			
Due other companies,		-	-	73,777			
-					—	1,030,394	37
Total,		•			-	<b>\$</b> 17,357,475	59

# COST OF ROAD AND EQUIPMENT.

# Purchased by 1-resent Company.

When received from construction Company,—December 1,	18	373.	
Original cost to present Company, of road and equipment,	_ 8	10,848,250	00
Amount expended since purchase, account of construction,		3,122,822	28-
Amount expended since purchase, account of equipment,	-	244,410	84
Total cost to date of report,	-	14,215,483	12
Average cost per mile of road not including sidings,	-	30,554	
Proportion of cost for Michigan, 86.8 per cent,	-	12,339,039	35

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Docks,	_	_	_		_	\$6,665	50		
Real estate and rig	ht of	Way,	_			118,874			
Extensions, -	_	-	_	-	_	21,410			
Second track,	-	-	-	_	_	5,955	80		
New buildings, -	-	_	-	_	-	9,756			
New fences,	-	_	_	_	-	15,395	47		
Machinery and too	ls, _	-	-	_	_	6,357	02		
New locomotives,	•	_	-	_	_	25,500	00		
New cars, _	-	-	-	-	-	84,525	72		
Total,	-	-	-	-	-		_	<b>\$</b> 29 <b>4</b> ,441	98

# LEASED OR PROPRIETARY ROADS.

# Muskegon, Grand Rapids & Indiana R. R. Co.:

Docks, .		-	_	-	_	-	<b>\$</b> ]	7,425	16		
Real estate and	right	of	way,	_	_	-		9,785	18		
Extensions,	-	_	-	-	_	-	5	29,776	38		
New buildings,	-	-	-		_	_	1	6,860	84		
New fences,	-	-	-	-	-	-		9,598	04		
Total,	-	-	-	-	-	-	-	-		83,445	60
Total char	ges,	-		-	-	-	-	-	-	\$377,887	58
Total charges t					s abov	7 <b>0</b> ,	-	-	-	377,887	
Net addition to	prope	ertv	accou	nt.	_	_	_	_	_	377.887	58

ANALYSIS OF EARNINGS.

PASSENGER EARNINGS.

Roade.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Mais.	Total.	Proportion for Michigan.		Per Train Per Mile of Road.
Main line and branches	\$576,061 86	\$170,907 80	\$746,969 16	\$28,125 15	\$67,288 29	\$812,377 60	\$706,143 76	\$1.17	\$2,210 96
Leased or Proprietary Roads.									
Traverse City Railroad	17,955 65	8,376 38	21,332 08	1,800 00	1,690 68	24,822 71	24,822 71	35	864 72
Bay Vlew, Little Trav. & Mackinaw R.R.,	3,706 08	88	8,739 70	396 00	354 68	4,490 38	4,490 38	88	787 78
Muskegon, Gr'd Rapids & Indiana R. R.,	46,444 91	1,462 13	47,907 04	2,520 00		50,427 04	50,427 04	19	1,871 79
Total passenger earnings	\$644,168 50	\$175,779 48	\$619,947 93	\$32,841 15	\$39,328 06		\$782,117 78	\$1 G8	\$1,890 24

# FREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources, Fr't Department.	Total.	Proportion for Michigan.	Per Train Mile.	Proportion Per Train Per Mile of Michigan.
Main line and branches	\$620,936 88	\$992,401 91	\$992,401 91 \$1,513,338 79	\$1,131 97	\$1,131 97 \$1,514,470 76 \$1,314,560 62	\$1,314,560 62	\$1 36	<b>\$8,753 84</b>
Leased or Proprietary Roads.								
Traverse City Railroad	11,077 30	6,604.20	17,681 50		17,681 50	17,681 50	88	90 089
Bay View, Little Traverse & Mackinaw R. R.	1,802 50	816 88	2,619 38		2,619 38	2,619 88	25	79 697
Muskegon, Grand Rapids & Indiana R. R	29,581 46	42,180 01	71,711 47		71,711 47	71,711 47	83	1,960 80
Total freight earnings.	\$563,348 14	\$563,348 14 \$1,042,008 02 \$1,605,851 14	\$1,605,851 14		\$1,606,483 11	\$1,131 97 \$1,606,483 11 \$1,406,572 97	\$1.87	#8,408 86

Total transportation earnings, Transportation earnings per mile of r Transportation earnings per train mi Miscellaneous receipts from operating	le, acco	unt,	- <b>≩</b> 5,	294 1	09 <b>25</b>	<b>\$2,498,600</b>	84
other than for transportation as fol From telegraph,	low8	:	10	910	<b>K1</b>		
From rentals of tracks or terminals	_	-	•			•	
	в,	-		653			
From other sources:	-	-	11,	292	02		
Total,	-	-	-	-	_	36,855	90
Total earnings from operation of	road	, -	-	-	-	\$2,535,456	74
Total earnings per mile of road,	_	_	\$5.3	372	18		
Total earnings per train mile,			,-		27		
Proportion of taxable earnings for Mi	ahiaa	_	0 002 /	_			
Total taxable earnings per mile of	road	in	2,223,6	100	10		
Michigan,	_		5:3	309	03		
Income other than from earnings,	-	-	٠,٠		•	5,629	09
	•	-	-	-	-		
Total income from all sources,	-	-			-	<b>\$2,541,085</b>	83
Proportion of income for Michigan,	-	-	2,228,5	571	80		

# ANALYSIS OF EARNINGS BY DIVISIONS.

	G. R. &	ı.	т. с.	B. V. L. T. & M.	M., G.R. & I.	Total.
Total trans. earnings	\$2,826,848	86	\$42,504 21	\$7,109 76	\$122,188 51	\$2,498,600 86
Telegraph	18,028	26	418 44	185 11	888 70	18,910 51
Rents	6,653	87				6,658 87
Miscellaneous	10,871	45			920 57	11,292 02
Total	\$35,063	08	\$418 44	\$185 11	\$1,254 27	\$36,855 90
Total from operation	2,361,901	44	42,917 65	7,244 87	123,892 78	2,535,456 74
Total per mile of road	5,858	58	1,650 68	1,271 03	8,856 71	5,372 18
Total per train mile	1	80	76	38	1 14	1 27
Taxable earnings for Michigan	2,051,750	41	42,917 65	7,244 87	123,392 78	2,225,305 71
Taxable earnings per mile of road.	5,851	00	1,650 68	1,271 03	8,856 71	5,309 03
Income other than from earnings,	5,629	09				5,629 09
Total income from all sources	2,867,580	<b>5</b> 8	42,917 65	7,244 87	123,392 78	2,541,085 88
Proportion of income for Michigan	2,055,016	50	42,917 65	. 7,244 87	123,392 78	2,228,571 80

# ANALYSIS OF EXPENSES.

CLASS	1.—Maintenance	of	Way	and	Buildings.

Repairs of roadway and t	rack,	-	_	-	-	-	-	<b>\$226,2</b> 10	
Renewals of rails, - Renewals of ties, -	-	-	-	-	-	-	-	22,536	
Renewals of ties,	. <b>-</b> .	-		-	-		-	59,051	
Repairs of bridges, includ	ing cul	verts	and o	cattle	guar	ds, ,	-	40,776	
Repairs of fences, road cr	ossings	, and	. signa	3,	-	_	٠ -	29,275	
Repairs of buildings,	-	-		·-	-	-	-	54,579	95
Total, ·	-	-	- •	-	-	-	-	<b>\$432,43</b> 0	33
CLASS 2.—	Mainter	ance	of Mo	tive F	ower o	and C	ars.		•
Repairs of locomotives,	-	-	-	-	-	-	-	\$100,880	
Repairs of passenger cars,	-	-	-	-	-	-	-	49,549	
Repairs of freight cars,	-	-	-	-	-	-	-	142,110	45
Total,	-	-	-	-	-	-	-	\$292,540	28
CLAS	s 3.— <i>C</i> c	onduc	ting 2	Transp	ortati	ion.			
Fuel for locomotives,	-		-	-		-	-	\$181,662	
Water supply,	-	-	-	_	-	-	-	11,035	
Oil and waste,	-	-	_	-	_	_		21,478	94
Locomotive service, .	_	-	_	_	-	-	-	142,644	40
Passenger train service,	-		_	-	_	-	-	42,435	42
Passenger train supplies.	-		_	_	_	-	_	6,880	38
Oil and waste, Locomotive service, Passenger train service, Passenger train supplies, Mileage of passenger cars	i	_	_	•	_	_	_	1,469	
Freight train service.	, _			_	_	_	_	82,153	
Freight train service, Freight train supplies,	_	_	- - 	_	_	_	_	911	
	_	_	_	_	_	_	_	5,245	
Telegraph expenses (main	tenanc	e and	ago f	rating	r).	_	_	40,287	
Telegraph expenses (main Damage and loss of freigh	t and	hago	ROP.		,,,	-	•	2 814	
Damages to property and	cattle	~~88	-Бс,	•	-	-	•	3,110	
Damages to property and Personal injuries, Agents and station service Station supplies, .	outuro,		-	-	-	-	-	22,629	
Agants and station sarving	-	-	-		-	•	•	166,736	
Station annulise	۰,	-	-	-	-		-	19,094	
Station supplies,	•	-	-	-	•	-	-	10,004	<del></del>
Total,	-	-	-	-		-	-	<b>\$750,591</b>	06
	CLASS 4	1.— <i>G</i>	eneral	Expe	<b>1868</b> .				
Salaries of the general off	icers of	the	Comp	pany,	-	-	-	<b>\$24,351</b>	
Salaries of clerks in gener	al offic	<b>es</b> ,	-	-	-	-	-	41,239	
Law expenses,	-	-	-	-	-	-	-	9,565	
insurance			_	-	-	-	-	4.323	
Stationery and printing, Outside agencies and adv Contingencies,	-		-	-	-	-	-	20,518	
Outside agencies and adv	ertising	ζ,	-	-	-	-	-	13,965	
Contingencies,	- `		-	-	-	_	_	34,202	86
Taxes,	-	-		-	-	-	-	42,373	
Total,	_	_	_	_	_	_	_	\$190,540	10
62	_	-	-	-	-	-	-	<b>-,</b>	

#### RECAPITULATION OF EXPENSES.

	-		Per Cent of	!
Maintenance of way and buildings,			25.95	<b>\$</b> 432,430 <b>3</b> 3
Maintenance of motive power and cars,	-	-	17.56	
Conducting transportation,	-	-	45.05	•
General expenses, including taxes,	-	-	11.44	
Total operating expenses and taxes,	-	-	100.00	\$1,666,101 77
Operating expenses and taxes per mile of			3 <b>,53</b> 0 18	
Operating expenses and taxes per train for trains earning revenue,—1,996,016			83	•
Proportion of operating expenses and Michigan:				
Main line,	-	1,31	3 <b>,753</b> 56	
Leased or Propri	etary R	oads.		
Traverse City R. R.,	_	3.	4,035 97	
Muskegon, Grand Rapids & Indiana R. R	., _		5,849 43	
Bay View, Little Traverse & Mackinaw I		•	9,225 18	
Total proportion of expenses for Mic	higan,	<b>\$1,46</b>	5,858 14	
Percentage of expenses to earnings,	65.7			
Net earnings per mile of road,	•		L,842 00	
Net earnings per train mile,	-	-	44	
PECOLIDATON	OF D	NA TO		

# DESCRIPTION OF ROAD.

Main Line: From Fort Wayne, Ind., to Mackinaw City, Mich., July 3, 1882. Traverse City Railroad: From Walton, Mich., to Traverse City, Mich., December 1, 1872.

Date when the road was opened for use between its present termini:

Muskegon, Grand Rapids & Indiana Railroad:

From Grand Rapids, Mich., to Muskegon, Mich., December 1, 1886.

Bay View, Little Traverse & Mackinaw Railroad:

From Kegonin, Mich., to Harbor Springs, Mich., February 1, 1882.

# MAIN LINE.

Name, description, and length of each:	Miles, 100ths, Miles, 100tha,						
In Michigan:							
From Crooked Creek to Mackinaw City,	-	-	-	313	48		
In Indiana: From Fort Wayne to Crooked Creek,	_	•	-	53	11		
Total length completed,	-	-	-	-	-	366 59	)
Length of double track on main line,	•	_		-	-	95	j

# BRANCHES.

Manistee branch, from Milton Junction to Carey, 14 51 Deer Lake spur of Manistee branch, from Deer Lake to Raiguels,	21 47	
Long Lake spur of Missaukee branch, from Long Lake Junction to Long Lake, 77	8 41	
Osceola branch, from Osceola Junction to Olga,	7 03	
Total length of branches owned by Company,		36 91
Total length of branches owned by Company in Michi-		
gan,	36 91	
Total length of road belonging to this Company,  Total length of road belonging to this Company in		404 45
Michigan,	351 34	
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,		78 12
Aggregate length of tracks in Michigan belonging to		
this Company, computed as single track, Gauge of track, 4 feet 9 inches.		429 46

# Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each: Cincinnati, Richmond & Fort Wayne Railroad, Traverse City Railroad, Muskegon, Grand Rapids & Indiana Railroad, Bay View, Little Traverse & Mackinaw Railroad,		85 60 26 00 36 76 5 70	26 00 36 76
Total,		154 0	68 46
Total miles operated by the Company,	-	558 5	419 80
Number of Bridges and Trestles in Mic	hige	ın.	
Wooden bridges, number of, 11; aggregate leng			1,217.2
Iron bridges, number of, 2; aggregate leng			282.5
Combination bridges, number of, 7; aggregate leng			1,091.0
Wooden trestles, number of, 190; aggregate leng	th,	feet,	13,928.4
Total, 210;	-	•	16,519.1
Draw Bridges in Michigan.			
How many on your line?	-	-	None.

# Crossings-Railroad and Highway.

What pattern or patterns in use? Pennsylvania Steel Company.  Number of crossings of highways over or under railroad (over, 5; under, 1),	· · · · · · · · · · · · · · · · · · ·
Are your frogs and guard rails blocked as required by Act 174, Session Laws 1883?  How are they treated?  Wooden blocks.	
\ Stations.	
Number of stations on whole line, 167 Same in Michigan, 152	

# Employés.

					_		_			
Number of per	rsons re	gula	rly e	mploy	red or	n all 1	roads	opera	ted	2 001
by Company Same in Michi Classify your e	, includ	nng (	omei	818,	-	-	-	•	-	2,001
Classify vont a	gau, mnlová	- 12 22 1	ner f	ollow	ino li	at.·	-	•	-	1,705
Baggagemen	p.oj o	1	PO1 1	0110 11					_	21
Baggagemen Brakemen,	·, -	-			-	-	-		-	107
Conductors,	_	_	_	•		_	_		_	60
Engineers,	-	_	_	_		-		-	-	89
Firemen,	-	_	-	_	-	-	-	-		90
Firemen, Laborers, Shopmen,	-	-	_		-	•	-	-		836
Shopmen,	-	-	-	-	-	-	-	-	-	330
Yardmen, Others,	-	-	-	-	-	-	-	-	-	38
Others, _	-	-	-	-	-	-	-	•	-	430
		R	REPA	IRS A	ND R	ENEW	ALS.			
			Fé	encing	in Mi	chigan	<b>.</b>			
How many mil	es of fe	encin	g ha	ve you	a?	- 1			- 41-	547
Give the num	Der oi	mile	s req	luirea	_ TO C	omple	ete ie	nce o	otn	
sides of your										1 <b>i</b> 7
needed , Osceola, Lak	- - Wow	- rford	Mia	aanka	a Gr	and T	- rovor	راک مو	- 10P.	111
levoix, En		iloiu,	BLIB	oau a	6, ur	auu I	14,101	<b>50,</b> OI	101-	
101012, 121	umicu.									
			Ro	ad Be	d and	Track	ć.			
Manushan of Ana	-14	: :	M	:-L:					•	0.4
Number of tra	CK BOCL	lons	in Mi	icniga	ın,		-	•	-	94 4.4
Number of tra Average length Average numb	1 OL BEC	on ir	(ші	h soot	ion a	-	-	•	-	4.4
Average numb Number of new	er or m	nt in	who	la lin	иоп Я	ang,	- 0 700 P		-	224,692
Number of nev	r ties p	nt in	trac	k in I	Michig	ran.	o your	• -	-	201,692
Average numb	er of ne	aw tie	AC BE	r mile	of r	oad	-	-	-	557
New rails put	in track	k: •	og po			<b>J</b>	•	-	-	001
Steel [ tons.	1.074.7	780 l.	mile	8.	_	_	_	_	_	11.4
Steel [tons, Total miles of	track	laid v	vith	new r	ails,		_			11.4
			Br	ridges	and C	ulvert	8.			
		_	_		_					
Amount of tre		rk re	place	ed wi	th ear	th dr	iring	the 3	re <b>ar</b>	
(linear feet),		٠,	-,	;	.,				-	136
Amount of tre		ork r	epiac	ced w	ith ii	on pi	pe di	ırıng	the	
year (linear	reet).	_	-	-	-	-	-			104
			I !	- 41 -					-	124
Timber culver	ts repla	ced d	lurin	g the	year,	-	-	-	-	10
With sewer	ts repla pipe,—:	numt	er.	g the	year, -	-	-	-	<u>-</u> - -	10 4
With sewer p With timber New bridges by	ts repla pipe,— ,—nun	numt aber,	er.	-	•	-	-	-	- - -	10

ROLLING STOCK.		
	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight,		
exclusive of tender,  Number of locomotives of 20 to 30 tons weight,	41	<b>\$</b> 205,000 00
exclusive of tender,	20	60,000 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender,	1	2,500 00
Total,	62	\$267,500 00
Number of passenger cars—12-wheel, including		
official cars,	17	51,000 00
Number of passenger cars—8-wheel, including		
official cars,	30	75,000 00
Number of express and baggage cars,	24	36,000 00
Number of box freight cars,	1,351	405,300 00
Number of stock cars,	50	15,000 00
Number of platform cars,	1,577	394,250 00
Number of charcoal cars,	30	9,000 0
Number of conductors' way cars,	45	11,250 00
Other cars as follows:		
Snow plows, 5; wrecking cars, 3; derrick cars,		,
2; pile driver, 1,	11	5,500 00
Total,	3,135	\$1,269,800 00
Number of locomotives equipped with power brakes,	37	
Number of passenger train cars equipped with power		
brakes,	71	
What patterns of power brakes have you in use, and and cars with each?	number	of locomotives
Seventy-one passenger cars and 33 locomotives e	quipped	with Westing-
<ul> <li>house; 3 locomotives with American steam bra</li> </ul>	ke, and	1 with Eames
vacuum.	1 .	
Are your freight cars being equipped with automat by Act No. 147, Session Laws of 1885? Yes.	ic coupie	rs as required
What pattern or patterns have you adopted for use?		
Blocker and Almy.		

# MILEAGE, TRAFFIC, ETC.

# TRAIN MILEAGE.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	-	822,771 1,173,2 <b>45</b>
Total mileage of trains earning revenue,	_	_		1,996,016

Dansanaa	Thurs 48 a
Passenaer	1Tame.

Passenger	r Irajji	c.		
•		Numbers and Quantitie	Miles.	Rate.
Number of through passengers carried,		97,482		
Number of local passengers carried,	_	971,887		
· · · · · · · · · · · · · · · · · · ·		<del></del>		
Total number of passengers carried	i, _	1,069,369		
Total passenger mileage, or passengers of	hoisso	ona mila	22 202 202	<b>.</b>
Average distance traveled by each passe		one mile,	31.1	,
Average amount received from each passe	ngor,		01.1	<b>\$</b> 0 77
Average rate of fare per mile for throu	ap nar	, gangara		- 02.159
Average rate of fare per mile for local	nassan Bu Per	gers.		02.558
Average rate of fare per mile for all pa	ggan ga	5010, - 112		02.460
and the state of the per mile for the pu	ogo		• •	0.0.100
Freight	Traffic.			
Number of tons of through freight carr	beir.	861,230	,	
Number of tons of local freight carried		519,746		
Trumber of tons of local Height Carried	., -	010,140		
Total tons of freight carried,		1,380,976		
Total tong of Morgan currica,	-			
Total mileage of through freight,	-	_ 1	108,702.487	,
Total mileage of local freight,		_	36,043,707	
				-
Total freight mileage, or tons carri	ed one	mile,	1 <b>44,73</b> 6,194	<u> </u>
Average ton haul for through freight,			126.2	).
Average ton haul for local freight,	-		69.3	
Average ton haul for all freight,	-		101	
Average amount received for each ton	hanl			<b>\$</b> 1 16
Average rate per ton per mile, received				.958
Average rate per ton per mile, received				1.563
Average rate per ton per mile, received				1.109
Tiverage rate per ton per mile, received	101 41	ı marguv,	• •	1.103
Freight Forwarded at	Michi	aan Station	•	
Freight Forwarded do	THE SCHOOL		••	Forwarded,
ani.				Tons.
Grain,	-		• •	33,980
Flour,	-			13,198
Provisions (beef, pork, lard, etc.),	-			3,348
Animals,	-	• .		4,203
Tumber and fencet products,	-			42,103
Lumber and forest products,	-			843,551
CO81,	-	•		20,148
Plaster, lime and cement,	-	-	-	16,520
Salt,	<b>-</b>		· -	3,965
Petroleum,	-			3,437
Railroad iron, iron and steel rails,	-			11,996
Pig and bloom iron,	-			23,419
Other iron and castings,	-			3,616
Ores,	•			32,656

490 MICHIGAN RAILROAD RETURNS.									{Dec. 81.		
Stone, bri Manufacti Merchand	1 <b>r</b> es,—	artic	les sl							n	Forwarded, Tons. 13,226 38,223 92,151
Total	forwa	rded	,	-	-	-	-	-	-		1,199,740
		Tonn	age o	f Art	icles	Transp	ported	—Enti	re R	oad.	<b>.</b>
<b>a</b> .										Tons.	Per Cent.
Grain,	-	-	-	-	-	-	-	-	-	46,934	3.4
Flour,					-		-	-		13,827	1.0
Provisions	(beef	, porl	k, lar	d, et	c	-	-	-	-	5,697	.4
Animals,	• _	_		-	-	-	-	-	-	10,540	.8
Other agri					-		-	-	-	50 829	3.7
Lumber a	nd for	est pi	roduc	ots,	-	-	-	-	-	859,786	62.8
Coal,	-	-	-	-	-	-	-	•_	-	56,547	4.1
Plaster, li	ne an	$\mathbf{d}$ cem	ient,	-	-	_	٠.	-	_	19,950	1.5
Salt,	_	-	-	_	-	_	-	_	-	4,188	.3
Petroleum	,	-	_	-	-	_	-	-	-	6,253	.5
Railroad in		on a	ad st	eel ra	ils,	_	_	_	_	20,863	1.5
Pig and bl				_	•	_	_	_	_	26,349	1.9
Other iron				-	_	_	_	_	_	7,665	.6
Ores.	_	_	-	_	_	_	_	_		32,656	2.4
Stone, brid	k and	sand		_	_	_	_	_	_	14,580	1.1
Manufactu				ipped	l fro	m poi	nt of	prod	uc-	,	
tion.		_	_	-F P • •		po.		F-04		54,514	3.9
Merchandi	ae and	othe	- T & T	ticles	not.	An n m	erate	d abo	VA.	138,972	10.1
VI OMWII WI	wald	· OULC			1100	Juan		~ 450	· · · , _	100,010	
Total	tons c	arried	i,	-	-	-	-	-	_	1,370,150	100.00

# ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Company; 40 per cent of gross receipts; a minimum of \$36,000 00 per year guaranteed.

All freight received and delivered at depots.

The above covers all lines operated by this Company.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles, 861.16. Owned by Company.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company

have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill., \$944.64. Paid to Detroit, Lansing

& Northern Railroad Company.

Woodruff Sleeping and Parlor Coach Co., Philadelphia (partly estimated), \$6,646.95.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

January 15. Michael Hogan, trespasser, near Child's Mill, intoxicated; no blame attached to Company by jury.

April 2. George Crabtree, trespasser, near Reynolds, intoxicated; no

blame attached to Company by jury.

April 28. A. C. Clark, citizen, near Belmont, at crossing D., L. & Northern train; no blame attached to Company by jury.

May 7. Miles Bascom, brakeman, Mancelona, coupling; accidental. June 1. Chas. Croft, boy, trespasser, Muskegon, fell from train.

June 1. Peter Corbin, trespasser, Muskegon, intoxicated, lying on track;

no blame attached to Company by jury.

June 9. Peter Smith, would-be passenger, Reed City, trying to get on moving train, through carelessness fell under wheels.

August 22. N. Bump, brakeman, Montieth, struck by overhead bridge. September 6. Charles Lytle, citizen, crossing near Belmont; lack of caution; no blame attached to Company by jury.

October 4. Wm. W. Warner, trespasser, Wetzell, carelessness; no blame

attached to Company; intoxicated, drove on to crossing.

November 1. Stephen S. Pew, brakeman, Kalkaska, coupling; accidental; no blame attached to Company.

#### INJURED.

February 19. D. G. Crotty, passenger, near Poland's, coach jumped track, broken arm and shoulder.

March 16. Frank Price, laborer work train, Grand Rapids, jumping off train; carelessness; hurt in head, chest, back and legs.

April 21. Thos. Sheehan, trespasser, Vicksburg, fell from train, legs cut off.

May 9. Jno. Terry, brakeman, Sturgis, coupling cars; thumb mashed.

May 31. Frank Jaqueth, boy, trespasser, Grand Rapids, playing about train, arm crushed.

June 16. J. C. Spicer, farmer, Indian Field, crossing road, struck by engine; head cut.

June 27. Harry Thomas, D., L. & N. brakeman, Grand Rapids, foot

caught under engine and taken off.

September 1. H. Prutzman, Kalamazoo, crossing track, struck by engine, slightly injured.

September 5. Fred Jaynes, switchman, Grand Rapids, coupling, arm crushed; accidental.

September 26. Cleyton Smith, brakeman, Mendon, coupling cars, foot taken off; carelessness.

October 1. Chas. Preston, brakeman, Portage Lake, coupling cars; finger pinched.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.			Injured.		
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions	-					
Coupling cars	-	2	¦		4	
Derailments				1		
Falling from trains	.					
Frogs						
Getting on and off trains	. 1	 			1	
Highway crossings	l .	l	_	1		İ
Miscellaneous						
Overhead obstructions		1		. <b></b>		 
Trespassers on trains		 	1			
Frespassers on tracks	1	1	8			
Total	. 1	8	7	1	5	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year, -		_	-	11
Number of persons injured during the year,	_	-	-	11
Number of casualties purely accidental,	-	-	_	5
Number resulting from lack of caution, carele	sanes	, or 1	nis-	
conduct,	-	_	-	10
Persons killed or injured while intoxicated,	_	-	-	3
Trespassers and tramps killed or injured,	-	_	-	4
Suicides,				

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	. 8	8	} ,
Conductors			
Engineers	.		
Firemen	1		 ]
Laborers		1	;
Shopmen			
Yardmen	1	1	1
Not classified above			····· <b>}</b>
Total	. 8	5	

STATE OF MICHIGAN, Solution State of Michigan, Solution State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of S

W. O. Hughart, President, and J. H. P. Hughart, Secretary, of the Grand Rapids & Indiana Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. O. HUGHART, President. J. H. P. HUGHART, Secretary.

Subscribed and sworn to before me this 18th day of May, A. D. 1888.

[L. S.]

WM. S. HOWARD, Notary Public for Kent Co., Mich.

# ANNUAL REPORT

#### OF THE

# BAY VIEW, LITTLE TRAVERSE & MACKINAW RAILROAD COMPANY.

For the Year ending December 31, 1887.

[ Filed May 28, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART Grand Rapids.

Secretary, J. H. P. HUGHART, Grand Rapids.

Treasurer, W. R. SHELBY, Grand Rapids.

Transfer Agent, J. H. P. HUGHART, Grand Rapids.

#### DIRECTORS.

None elected at last annual meeting. Existence of Company was terminated by resolution of stockholders, adopted May 2, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—(about) April 80, 1879.	
Number of stockholders at date of last election,	89
Number of stockholders in Michigan at same date,	38
Amount of full paid stock held in Michigan at same date, \$46,600	00
Date of annual meeting of stockholders,—First Wednesday in May.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Grand Rapids, Mich.	

#### REMARKS.

Operated during 1887 by the Grand Rapids & Indiana Railroad Company, which owns all of the bonds, and a majority of the capital stock.

# 1887.] BAY VIEW, LITTLE TRAVERSE & MACKINAW RAILROAD CO. 501

Default having been made in the payment of interest on the bonds, the road was sold under foreclosure proceedings on the 17th day of January, 1888, and was purchased by the Grand Rapids & Indiana Railroad Company; its operations and accounts will hereafter be merged in those of that company.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$50,000 00</b>
Average price received per share, Cannot answer.	
No. of shares issued, 467	
Amount paid in on common, \$46,700 00	
Total amount paid in, as per books of the Company,	46,700 00
Paid in per mile of road owned by Company,—	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage	6 per cent	1901.	Grand Rapids	\$25,000 60
Total funded debt				\$25,000 00

#### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		 
For renewals		
For miscellaneous—Unpaid coupons, wiped out by sale of road,		\$7,500 0
For current balances due G. R.& I. R. R. Co., wiped out by sale of road		18,046 5
Total unfunded debt		\$25,546 5

7,500 00

#### RECAPITULATION.

Total funded de Total unfunded	•	-	-	-		<b>-</b>	-	-	-	\$25,000 25,546	
Total debt l	iabilities	3, _	-	-	. ,	-	-	-	-	<b>\$5</b> 0,546	<b>51</b>
Amount of debt	liabiliti	es per	mile	of 1	road,-	-5.7	mil	98,	-	8,867	81
Total amount of				-			-	-	-	97,246	
Stock and debt ]	per mue	oi ro	) <b>8</b> a,	•	•	-	•	-	-	17,060	79
•		Inter	est of	n the	Fund	led D	ebt.				
What is the amo				ach ;	year?		•	-	-	1,500	
Was it paid for					-			-	-	1	No-
If interest is in	default s	state	the y	ears	and a	amou	nts	as foll	lows:		
Year 1883,		-	•	-	-	_	•	1,500	00		
Year 1884,		-		_	-	-		1,500	00		
Year 1885,		_		_	-			1,500	00		
Year 1886,								1,500	ሰበ		
		-	•	-	-	-		1,000	vv		

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,  Average cost of construction per mile of road (not includin	- g	<b>\$71,700 00</b>
sidings),	_	12,578 95
Proportion of cost of construction for Michigan,	-	71,700 00

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: February, 1882.

#### MAIN LINE.

•						Miles, 10	Oths. Mil	es. 100	the.
Length completed in Michigan,	-	-	-	-	. <b>-</b>	5	70		
Total length completed,	-	-	-	-	•	-	_	5	70
Total length of road belonging to Total length of road belonging to			5	70					
gan,	-	-	•	-	-	5	70		

# Aggregate length of sidings, spurs, and other tracks not above enumerated, \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 33 Same in Michigan, \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 33 Aggregate length of tracks belonging to this Company, \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 6 03 Same in Michigan, \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 6 03 Gauge of track 4 feet 9 inches.

STATE OF MICHIGAN, SS. COUNTY OF KENT,

W. O. Hughart, President, and J. H. P. Hughart, Secretary, of the Bay View, Little Traverse & Mackinaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. O. HUGHART, President. J. H. P. HUGHART, Secretary.

Subscribed and sworn to before me this 21st day of May, A. D. 1888.

F. A. GORHAM,

Notary Public, Kent Co., Mich.

#### ANNUAL REPORT

OF THE

# MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed May 28, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids.
Secretary, J. H. P. HUGHART, Grand Rapids.
Treasurer, W. R. SHELBY, Grand Rapids.
Transfer Agent, J. H. P. HUGHART, Grand Rapids.

#### DIRECTORS.

<b>W</b> . (	D. HUGHART, Grand Rapids, Mich.
<b>w</b> . 1	R. SHELBY, Grand Rapids, Mich.
J. M	. METHEANY, Grand Rapids, Mich.
T. J.	O'BRIEN, Grand Rapids, Mich.
J. H	. P. HUGHART, Grand Rapids, Mich.
L. M	. KEATING, Muskegon, Mich.
N. M	CGRATH, Muskegon, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Febr	ruary	12, 18	86.		
Number of stockholders at date of last election,	_	_	-	-	7
Number of stockholders in Michigan at same date,		-	_	_	7
Amount of full paid stock held in Michigan at same	date,			-	None issued.
Fiscal year of Company ends December 31.					,
General offices of the Company are located at Grand	Rapi	ds, Mi	ch.		

#### REMARKS.

Leased to Grand Rapids & Indiana Railroad Company for ninety-nine years from time of completion—December 1st, 1886. Terms, net earnings guaranteed to be equal to interest on bonds.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, .	<b>\$350,000 00</b>
Par value of shares, \$100 00	
No. of shares issued, None.	
Amount paid in on shares not	•
issued (number 200), _ 1,000 00	
Total amount paid in, as per books of the Company,	1,000 00
Paid in per mile of road owned by Company,—miles, 36.76, \$27.20	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

~ Class, Character, and date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
*First mortgage—June 9, 1886	5 per cent	July 1, 1926.	New York	\$750,000 UO
Total funded debt	\$750,000 00			

<sup>\*</sup>Issued by Grand Rapids & Indiana Railroad Co., and secured by first mortgage on the railroad and property of the Muskegon, Grand Rapids & Indiana Railroad Co.

#### UNFUNDED DEBT.

For What Incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction	To be paid	\$6,805 77
For equipment		
For real estate	To be paid	6,000 00
For renewals		
For miscellaneous—Coupons due January 1, 1888	To be paid	18,800 00
For current balances—G. R. & I, R. R. Co. operating account	To be paid	28,567 24
Total unfunded debt		<b>\$</b> 55,178 01

#### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	-	-	-	\$750,000 55,173	
Total debt liabilities,	-	-	-	-	-	-	-	\$805,173	01
Amount of debt liabilities	per	mile	of ros	d,—8	<b>6.76</b> 1	miles,	-	21,903	<b>51</b> .
Total amount of stock and Stock and debt per mile of			-	-	-	-	-	806,173 21,930	

#### Interest on the Funded Debt.

What is the amount of the same due each year,	<b>\$37,500 00</b> ·
Was it paid for the last year?	Yes.
If interest is in default state the years and amounts as follows:	None.

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,			\$697,394	22
Average cost of construction per mile of road (not in	nclud	ing	10 021	2 2
sidings),	-	-	18,971	99.
Proportion of cost of construction for Michigan,		-	697,394	22

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1886.

#### MAIN LINE.

						Miles, 1	UUths,	Kijes, j	OULDS.
Length completed in Michigan	۱, -	-	-	-	-	36	76		
Total length completed,	-	-	-	-	-	-	_	36	76
Total length of road belonging Total length of road belongi					in	-	•	36	76
Michigan, Aggregate length of sidings, s	- purs	and ot	her t	acks	not	36	76		••
shove enumerated, Same in Michigan,	- -	- -	- ·bia C	- - !aa-	-	- 6	30	0	30
Aggregate length of tracks bel computed as single track,	- опд	TIR TO I	TIE C	om pa	iny, -	-	-	43	06-
Same in Michigan, Gauge of track, 4 feet 9 inch	- 108.	-	-	-	-	43.	06		

STATE OF MICHIGAN, ) COUNTY OF KENT,

W. O. Hughart, President, and J. H. P. Hughart, Secretary, of the Muskegon, Grand Rapids & Indiana Railroad Co., being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said Company, on the thirtyfirst day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. O. HUGHART, President. J. H. P. HUGHART, Secretary.

Subscribed and sworn to before me this 21st day of May, A. D. 1888. [L. s.]F. A. GORHAM, Notary Public, Kent Co., Mich.

#### ANNUAL REPORT

#### OF THE

# TRAVERSE CITY RAILROAD COMPANY,

For the Year ending December 31st, 1887.

[Filed May 29, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, PERRY HANNAH, Traverse City, Mich. Secretary, J. H. P. HUGHART, Grand Rapids, Mich. Treasurer, J. H. P. HUGHART, Grand Rapids, Mich. Transfer Agent, J. H. P. HUGHART, Grand Rapids, Mich.

#### DIRECTORS.

PERRY HANNAH, Traverse City, Mich.

SMITH BARNES, Traverse City, Mich.

W. H. C. MITCHELL, Traverse City, Mich.

THOS. T. BATES, Traverse City, Mich.

D. C. LEACH, Traverse City, Mich.

W. R. SHELBY, Grand Rapids, Mich.

W. O. HUGHART, Grand Rapids, Mich.

'Term expires May 4, 1889.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when chartered or articles of association filed, —Octobe	er ou,	1871.				
Number of stockholders at date of last election,	-	-	-	-		78
Number of stockholders in Michigan at same date,	-	-	-	-		72
Amount of full paid stock held in Michigan at same da	te,	-	-	-	\$85,400	00
Date of annual meeting of stockholders,—Thursday aft	er fir	st W	ednes	day i	n May.	
Fiscal year of Company ends December 31.						
General offices of the Company are located at Traverse C	City, I	Mich.				

#### REMARKS.

Leased to Grand Rapids & Indiana Railroad Co. for 50 years from January 1, 1883; rental, net earnings guaranteed to be not less than interest on first mortgage bonds, or \$7,500 per year.

All traffic and road statistics included in the report of the lessee corporation.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	<b>\$205,000 00</b>
Par value of shares, \$100 00	
Average price received per share, 100 00	
No. of shares issued, 2,050	
Amount paid in on common, \$205,000 00	
Total amount paid in as per books of the Company,	205,000 00
Paid in per mile of road owned by Company, —miles, 26, \$7,884 62	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
First mortgage, January 1, 1883	3 per cent.   Not to exceed    5 per cent.	Jan. 1, 1983 Jan. 1, 1983	New York	\$250,000 00 190,000 00
Total funded debt				\$440 000 00

#### UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or How Liquidated.	Amount.
For construction		
		ŀ
		l
For miscellaneous	Coupons due Jan. 1, 1888—to be paid	\$3,750 dt
For current balances		6 84
Total unfunded debt		\$8,756 8

#### RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	- -	-	-	- -	-	\$440,000 3,756	
Total debt liabilities,	-	-	-	-	-	-	-	\$443,756	35
Amount of debt liabilities Total amount of stock and Stock and debt per mile of	đebt,	-	road -	[26 -	miles] -	<b>,</b>	-	17,067 648,756 24,952	35
-		t on th	e Fun	- ded I	ebt.	•	-	24,502	1,
What is the amount of sar Was it paid for the last yes If interest is in default sta	ar,	-	_		- unts a	- s follo	- - ows:	\$7,500 Y No	es.

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction		-		.=	<u>-</u>	-	<b>\$</b> 454,164 54
Average cost of construction per	mile	of	road (1	not	includi	ng	
sidings), — miles,	_	-	- '		-	•	17,467 87
Poportion of cost for Michigan,		_	-	<i>:</i>	-	-	454,164 54

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1872.

#### MAIN LINE.

						Miles, 1	100ths.	Miles.	100ths
Length completed in Michigan,	-	-	-	-	-	26	00		
Total length completed,	-	-	-	-	-	-	_	26	00
Total length of road belonging a Total length of road belonging					in	•	-	26	00
Michigan, Aggregate length of sidings, spu	-	-	-			26	00		
above enumerated, Same in Michigan,	-	-	-	-	-	- 2	47	2	47
Aggregate length of tracks bel computed as single track,	ongin	g to t	his C	ompa	ny,		-•	28	47
Same in Michigan,	-	-	-	-	-	28	47 *		

STATE OF MICHIGAN, SS.

Perry Hannah, President, and J. H. P. Hughart, Secretary, of the Traverse City Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, PERRY HANNAH, President.

J. H. P. HUGHART, Secretary.

Subscribed and sworn to before me this 23d day of May, A. D. 1888, by Perry Hannah.

GEO. W. HALL, Notary Public, Traverse City.

Subscribed and sworn to before me the 19th day of May, A. D. 1888, by J. H. P. Hughart, Secretary.

F A. GORHAM, Notary Public Kent County, Mich.

#### ANNUAL REPORT

#### OF THE

# CINCINNATI, JACKSON & MACKINAW RAILROAD COMPANY.

(MICHIGAN DIVISION)

For the Period of Ten Months ending December 31, 1887.

[Filed June 19, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. M. C. MARBLE, Toledo, Ohio. Vice President, GEO. R. SHELDON, New York. Secretary, G. L. MARBLE, Van Wert, Ohio. Comptroller, F. S. ANABLE, Toledo, Ohio. Treasurer, RICHARD SMITH, New York. General Manager, F. B. DRAKE, Toledo, Ohio. Division Superintendents:

O. W. BELL, Toledo, O.

L. W. BUCKMASTER, Van Wert, Ohio. Chief Engineer, J. W. RIMER, Van Wert, Ohio. Cashier, O. A. WILSON, Toledo, Ohio. Traffic Manager, H. R. JOHNSTON, Toledo, Ohio. Attorney, G. L. MARBLE, Toledo, Ohio.

#### DIRECTORS.

J. Kennedy Tod, 63 Williams St., New York. Geo. R. Sheldon, 4 Wall St., New York. Geo. F. Stone, 37 Wall St., New York. John T. Martin, 35 Wall St., New York. R. T. Wilson, 2 Exchange Court, New York. SAMUEL THOMAS, 10 Wall St., New York. TITUS SHEARD, Little Falls, N. Y. J. M. C. MARBLE, Toledo, Ohio. CHAS. FOSTER Fostoria, Ohio. S. FRANK EAGLE, Lutonia, Ohio. HENRY BUTLER, Van Wert, Ohio. OSCAR SHEPPARD, West Alexandria, Ohio.

J. W. RIMER, Van Wert, Ohio.

G. L. MARBLE, Toledo, Ohio.

F. S. ANABLE, Toledo, Ohio.

Term expires October 8, 1888.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed, *				
Number of stockholders at date of last election,	-	-	-	81
Number of stockholders in Michigan at same date, .	-		_	2
Amount of full paid stock held in Michigan at same date,	-	•	_	20 shares.
Date of annual meeting of stockholders,—First Wednesda	y in C	ctobe	er.	
Fiscal year of Company ends September 80.				
General offices of the Company are located at Van Wert, (	).			

#### REMARKS.

\*Formed March 9, 1886. by consolidation of the Cincinnati Van Wert & Michigan R. R. Company of Ohio, organized January 24, 1881, and the Jackson & Ohio Railroad Company of Michigan, organized January 20, 1884. On March 19, 1887, acquired by purchase the Michigan & Ohio Railroad from Allegan, Mich., to Dundee, Mich. During 1887, the main line has been extended by construction southward from West Alexandria, Ohio, to Carlisle, Ohio, 16.6 miles, and northward from Cecil, Ohio, to Addison Junction, Mich., 59.9 miles, connecting at latter point with the line of the Michigan & Ohio R. R., now the Michigan Division of this Company. The last link in this connection, viz.: from Alvordton, Ohio, to Addison Junction, Mich., was completed December 80, 1887. The Michigan Division being the only line operated in Michigan during 1887, and its accounts being kept separately, the operations of that portion only of the Company's lines are included in this report. A general balance sheet from the Company's books December 31st, 1887, with stock and debt statements of same date for the entire line, are given as a basis for future reports. The earnings of the road during the two months that it was in charge of George L. Bradbury are appended as a separate report.

#### GENERAL EXHIBIT.

	DERIT.				CREDIT.	
Total income, Total expenses, including taxes,		-	<b>\$139,611</b> 3			\$176,681 91
Net income,	-	-	-		-	\$37,070 55
Rentals of buildings, tracks, etc.,	-	-	-	-	-	15,107 42
Balance for the year,	-	-	-	-	-	\$21,963 13
Items not included in above, as follo Carried to account of C. J. & M.		. Co.,	S	21,963	13	
			\$2	31,963	13	\$21,963 13

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter of Par value of shares,			sociation,	_ ;	\$20,850,000	00
		7.978				
Common, Fractional scrip, common,	-	11.65				
		7,989.65				
Amount paid in on common,	-		<b>\$</b> 798,965	00		
Amount paid in on shares not :						
ber — ),	-	<b>*</b>	<b>\$15,084,009</b>	00		
Total amount paid in, as pe	r bo	oks of the	Company,	-	15,882,965	00
Paid in per mile of road owner miles, 321.6	d b	y Compan	<b>y,—</b> <b>\$49,</b> 387	33		

<sup>\*</sup>Common, \$10,066,000. Preferred, \$5,028,000. In addition to this amount \$1,200,000 of preferred stock is deposited in trust with Central Trust Company of New York for redemption of same amount of C., V. W. & M. R. R. Central Division second mortgage income bonds.

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable,	Amount Outstanding.
C., V. W. & M. R. R., Central Division, first mortgage coupon bonds, dated April 14, 1881. C., V. W. & M. R. R., Central Division, second mortgage income bonds, dated April 14, 1881. C., J. & M. R. R., first consolidated second mortgage bonds, dated December 1, 1896. Central Division income bond scrip	6 per cent.	Jan. 1, 1980	Bank, New York	\$1,200,000 00 1,200,000 00
Total funded debt	<u></u>	•	' —— — — — — — — — — — — — — — — — — —	84,200,500 00

<sup>\*</sup> Six per cent, when earned non-cumulative.

Equipment account, .

#### UNFUNDED DEBT.

For What Incurred,	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		
		1
		ĺ
		\$148,215
Total unfunded debt		\$143.215

#### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	-	- -	-	-	\$4,200,500 143,215	00 79
Total debt liabilities,	-	-	-	-		-	-	<b>\$4,843</b> ,715	79
Amount of debt liabilities	per	mile	of ro	ad (3	21.6 n	niles),	-	13,506	58
Total amount of stock and Stock and debt per mile of	del roa	ot, d,	-	-	-	-	•	20,226,680 62,893	79 91
GENI	CRAI	L BAI	LANCI	SHE	et.	DB.			
Construction account,	-	-	-	_	-	-	Į		

\$20,380,100 91

<sup>†</sup>In addition to this amount \$1,200,000 of this issue of bonds is deposited in trust with Central Trust Company of New York for redemption of same amount of C., V. W. & M. R. R. Central Division first mortgage bonds.

516	MIC	HIG.	AN RA	LILRO	DAD R	eturns.		[Dec.	81.
Cash items: Cash, Due from agents	- , -	-	-	-	-	\$23,616 35,799			00
Other assets:  Materials and su Debit balances f				nd i	ndi-	\$13,272		· ;	
viduals, -	-	-	-	-	-	19,638	81	32,911	29
Total,		-	-	-	-		-	\$20,472,428	20
	GEN	ERA	L BAI	ANC	e she	ET,—Cr.			
Capital stock,	_		_	_	-		-	\$15,882,965	00
Funded debt,	-	-	-	-	-		-	4,200,500	
77 4 3 3 3 3 4								\$20,083,465	00
Unfunded debt: Vouchers and acc	ounts							143,215	79
Profit and loss or				, -	-		-	245,747	
Total,	-	-	-	-			-	\$20,472,428	20
•	COST	OF	ROAD	ANI	D <b>EQ</b> U	IPMENT.			
1			ENTI	RE L	INE.				
Total Cost for Constru	uction a	nd E	quipm	ent of	Road,	and Branch	es B	uilt by Compo	ny,
Total expended for Average cost per mi	constr ile of	uctio road	n and (not	equi inclu	pment	, <u> </u>	- 21.6	\$20,380,100	91
miles,	_	_	`_	-	-		-	63,370	
Proportion of cost	for Mic	chiga	n,	-	-		-	9,885,869	76
	,	ANA	LYSIS	OF I	EARNI	NGS.			
		PA8	SENGI	R EA	RNIN	38. ·		•	
Main line and brane	ches:								
Local fares,	-	-	-	-	-		-	<b>\$34,</b> 208	
Through fares,	-	-	-	-	-		-	10,297	00
Total passenger	fares,	-	-	-	-	• -	-	\$44,505	87
Express and bagg	age.	_	_	_	_			2,817	36
Mails,	_	-	-	-	•		-	5,085	
Total passenger	r earni	ngs,	-	-	-		-	\$52,408	46

1887.]	CINCI	NNAT	I, JA	CKS	ON &	MAC	KINA	W RAILRO	AD	CO.	517
D		M: -1						<b>e</b> ro 200	NE		
Propor	tion for	MICI	ngan	l,	-	-	-	<b>\$</b> 50,392			
Per tra	in mile, le of ro		-	-	-	-	-	00-	34		
Per mi	le oi ro	ad,	-	-	-	-	-	335	95		
				FRI	EIGHT	BAR	NINGS	•			
M-1 11											
Main line			8:					<b>A</b> 00 040	00	•	
	raffic, _		•	-	-	-		\$96,640			
Throug	gh traffi	С, .	•	-	-	-	-	21,536			
Tota	l traffic,		-	-	-	-	-	\$118,176	42		
Other sou	rces, fr	eight	depa	ŗtme	nt,	-	-	6,073	37		
Tota	l freigh	t earr	ings	,	-	-	-		-	<b>\$124,24</b> 9	79
Propor	tion for	Mich	igan.		_	_	_	\$119,470	95		
Per tra	in mile.		- <b></b> ,	_	_	_	_		17		
Per mi	in mile, le of ros	d.		_	_	_	_	796	47		
Tota	l transp	ortati	on ee	arnir	ıgs,	-	-		_	\$176,658	3 25
Transpor	tation e	arnin	gs pe	r m	ile of	road	,	<b>\$</b> 1,132			
Transpor	tation e	arnin	gs pe	r tre	sin m	ile,	-	0	68		
Miscellan	eous rec	eipts	from	ope	ratin	g acco	unt,				
	han for			tion	, as 1	ollow	8:			,	
From oth	er sour	008,	-	-	-	-	-		-	28	3 66
Tota	l earnin	gs fro	m op	erat	ion o	f road	d,		-	\$176,681	91
Total ear	ninga n	r mil	ام ما	road				<b>\$</b> 1,132	K7		
Total ear	nings p	or two	in m	ila	., - -	-	-	•	68		
Proportio	nuge b	rahla	oorni	nga		ichia	an	169,886			
Total ta	zable es	rning	AN JUE	r mi	le of	hanr	in	100,000	TU		
Michig			,s po		.10 01	2000		1,132	57		
	, -	-		-	-	-	-	_,,	••		
Tota	l income	fron	all	sour	C08,	-	•		-	\$176,681	91
Proportio	on of inc	ome i	for M	lichi	gan,	-	.,	169,886	45		
			Al	NAL	eiev	OF E	XPEN	SES.			
		CLASS	1.—2	Yain	tenan	e of	Way an	d Building	78.		
Repairs o	f roadw	ay an	d tra	ck,	_	-	_		-	\$28,692	77
Renewals	of rails	, -				_	•		_		60
Renewals	of ties	, , -		-	-	-	-		-	359	26
Repairs o			cludi	ng c	ulver	ts and	d cattle	guards,	-	2,367	18
Repairs o	f fences	, road							-	4,042	
Repairs o				- `	-		-		-	1,196	60
Tota	l, .	_		-	-	-			-	\$36,726	13

Repairs of locomotive	8,	-	-	-	-	-	-	-	\$5,571	
Repairs of passenger	cars,	-	-	-	_	-	-	-	4,193	
Repairs of freight car	rs,	-	-	-	-	-	-	-	7,422	3
Total,	-	-	-	-	-	-	-	-	\$17,187	1
C	LASS	8.—(	Condu	cting	Trans	porta	tion.			
Fuel for locomotives.		-	_	_	_	_	_	_	<b>\$14,</b> 591	ç
Water supply,	-	_	_	-	_	_	_	_	1,704	ŧ
Dil and waste,	_	_	_	_	_	_	_	_	1,155	
Oil and waste, _ Locomotive service, Passenger train service	_	_	_	_	_	_	_	_	15,111	
Passenger train service	ю.	_	-	_	_	_	_	_	4,147	
Passenger train suppl	ies.	_	_	_	_	_	_	_	458	
dileage of passenger	cars.	_	_	_	_	_		_	817	
Freight train service,					-				6,424	
Traight train annnlias	L							_	86	
Telegraph expenses (r	, naint	enan	ce an	d one	rating	r).	_	_	4,128	
Damage and loss of f	reigh	t and	bag	gage.		• · · · · · · · · · · · · · · · · · · ·	-	-	209	
Damages to property	and o	cattle	. ~~ <b>6</b>	رده	•	-		-	1,528	
Personal injuries.		J	,	-	•	•	-	-	440	
Personal injuries, Agents and station ser	- rvice.		•	-	-	•	-	-	10,163	
Station supplies,	. 1200	- ,	-	•	-	•	-	-	786	
, caston supprios,	•	- ,	-	-	-	•	•	•		_
Total,	-	-	-	-	-	-	-	-	\$61,755	8
	C	LASS	4. –G	enera	Empe	m <b>s</b> es.				
Salaries of the genera	l offi	cers o	f the	Com	pany.	_	_	-	<b>\$9,548</b>	7
Salaries of clerks in g	ener	al off	ices.	_		_	-	-	4,358	
law expenses,			. ´	_	-		-	_	43	
nsurance,	_	_	_	_	_	_			870	8
nsurance, Stationery and printing Intelda agencies and	ıg.		_	_	_	_	_	_	2,510	
Stationery and printing Outside agencies and	ad ve	rtisin	ø.	-	_	-	-	-	2,976	
wand	_		ره.	-	-	-	-	-	3,511	
Contingencies.	-	-	-	-	-	-	-	-	122	
Caxes, -	-	-	-							

#### RECAPITULATION OF EXPENSES.

			Per Cent Of Expenses.		
Maintenance of way and buildings,	-	-	26.31	<b>\$</b> 36,726	13
Maintenance of motive power and cars,	_	_	12.31	17,187	10
Conducting transportation,	_	-	44.23	61,755	88
General expenses, including taxes,	-	_	17.15	23,942	25
Total operating expenses and taxes,	_	-	100.00	<b>\$139,611</b>	 36

Operating expenses and taxes p Operating expenses and taxes p for trains earning revenue,					<b>\$</b> 89 <b>4</b>	9 <b>4</b> 5 <b>4</b>		
Proportion of operating expendichigan:	1868 8	and t	taxes :	for				
Main line,	-	-	-	- 1	34,241	69		
Total proportion of expens	ss for	Mic	higan,		-		\$134,241	39

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Dundee to Allegan, November 29, 1883, by Michigan & Ohio R. R. Company.

#### MAIN LINE.

In Michigan:	Miles, 1	OOt ha	s. Miles. 100ths			
From Dundee to Allegan,	133	00		•		
Total length completed,	-	-	133	00		
Total length of road belonging to this Company, Total length of road belonging to this Company in Michigan,	- 133	-	133	00		
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	113					
Aggregate length of tracks in Michigan belonging to this Company, computed as single track, Gauge of track, 4 feet 81 inches.		-	144	93		

#### Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total Miles.	In Michigan.
Under trackage contracts—		
Wheeling & Lake Erie R. R., Toledo, O., to Manhattan Junction, O.,  Toledo, Ann Arbor & Northern Michigan Railway,	2 10	
Manhattan Junction, O., to Dundee, Mich.,	20 90	17 00
Total,	23 00	17 00
Total miles operated by the Company,	156 00	<b>150 00</b>

#### Number of Bridges and Trestles in Michigan.

Number of Bridges and Trestles in Michigan.	
Wooden bridges, number of, 1; aggregate length, feet, Wooden trestles, number of, 71; aggregate length, feet, 2	144 0,129
Total, 72; 2	0,273
Draw Bridges in Michigan.	
How many on your line?	None.
Crossings—Railroad and Highway.	
What railroads cross your road at grade in this State, and at what local Wabash Western R. R., at Britton.  Lake Shore & Michigan Southern R. R., at Tecumseh, Hanover, Hand Allegan.  Michigan Central R. R., at Homer.  Chicago & Grand Trunk R. R., at Battle Creek.  Chicago, Kalamazoo & Saginaw R. R., at Kalamazoo Junction.  Grand Rapids and Indiana R. R., at Monteith.  What railroads cross your road either over or under your grade in this Sand where?  Over grade—  Lake Shore & Michigan Southern R. R., at Jerome.  Under grade—  Michigan Central R. R., at Augusta.  At what crossings are interlocking and derailing switches in operation?	omer
None.  Number of crossings of highways at grade in this State,  Number of crossings of highways at grade in this State, at which there are gates or flagmen,  Number of crossings at which there are electric or automatic signals,  Number of crossings of highways over or under railroad (over, —; under, 2),  Number of highway bridges, 18 feet above track,  Have safety guards been erected at over-head obstructions?  Are your frogs and guard rails blocked as required by Act 174, Session Laws 1883?  Stations.	158 1 None. 2 2 Yes. Yes.
Number of stations on whole line,	35 33

# Employés.

Number of persons reg	gular	dy emp	oloyed	lon a	11	roads	opera	ted	
by Company, includi	ing o	officials	۱,	_	-	-	-	_	216
Same in Michigan,			_	_	_	-	-	_	196

Classify your e	шрю	yes a	her	1011 <b>0 w</b>	Ing I	BU.				Num	her
Baggagemen,											1
Brakemen,	-	-	•	-	-	-	-	-	•		8
Conductors,	-	-	-	-	-	-	-	-	-		(
			-	•	-	-	-	-	-		1
Engineers,	-	-	-	•	-	-	-	-	-		
chemen, .	-	-	-	-	•	-	-	-	-		1
Firemen, _ Laborers, _ Shopmen, _	-	-	-	-	-	-	-	-	-		8
onopmen, .	-	-	-	-	-	-	-	-	-		2
Laramon	-	-	-	-	-	-	-	-	-		
Others, -	-	-	•	-	•	-	-	-	•		4
			REPA	LIRS A	ND I	ENEV	TALS.				
			F	encing	in M	ichiga	n.				
How many mi	les of	fenc	ing h	ave vo	u?	_	_	_	_	9	249
live the num	ber o	f mil	98 Te	quired	to c	omple	te fe	nce b	oth		
sides of you	r trac	k. in	Mich	igan.	and t	he cor	inties	in wh	ich		
needed:	_	_,			_		_		_	No	ne
	_	_	_	_	_	_		_	_		
			Ro	ad Be	d and	Track	•				
Number of tra	ok se	ctions	in I	Lichig	an,	-	,-	_	_		14
Average lengtl	n of s	ection	s (m	iles). ີ	· _	_		_	_		9
Average numb	er of	men	in ea	ch sec	tion i	ang.	_	_	_		
Number of ne	w tier	tua s	n wh	ole li	ne du	ring t	he ve	ar.	_	45,4	18
Number of ne	w tier	nnt	in tra	ck in	Mich	igan.		,	-	45,4	
Average numb	er of	new:	ties r	er mi	le of	road.	-	-	•		14
New bridges b	nilt d	nring	tha	VAQT	nnmh	Ar	-	-	-	No	
Now orranges b	uii u	uring	ицо	yoar,	пашо	<del>01</del> ,	-	· -	-	. 110	10
								•			
			1	ROLLI	NG S	TOCK.	•				
		_						Nur	nber.	Present Estimated Va	lu
Number of loca				than	80 to	тв жей	ght,			****	_
exclusive of	tend	er,	-	-	-	-	-		13	<b>\$</b> 52,000	U
								-			_
Total,	-	-	-	•	•	-	-		13	<b>\$</b> 52,000	0
Tour,		ıger (	cars-	-8-wh	eel. i	nclud	ing				
-	088801				-, -				10	35,000	
Number of p	passer	-	_		-	-	-			,	0
Number of p	_	-	- 8008	ra car	R.						
Number of p official cars, Number of ex	- press	and b	- aggaį	ge car	8, _	-	-		3	6,000	0
Number of p official cars, Number of ex Number of bo	press x frei	and b	- aggaį ars,	ge car	'8, _ -	-	-		3 391	6,000 97,750	00
Number of p official cars, Number of ex Number of bot Number of sto	press x frei ock ca	and b ght ca	ars,	ge car - -	'8, _ - -	- - -	- - -		3 391 20	6,000 97,750 4,000	00
Number of p official cars, Number of ex Number of bot Number of sto Number of pla	press x frei ck ca tforn	and b ght ca	ars,	ge car - - -	'8, _ - - -	-	- - -		3 391 20 162	6,000 97,750 4,000 32,400	00
Number of posticial cars, Number of ex Number of boo Number of sto Number of pla Number coal of	press x frei ock ca tforn cars,	and b ght cars,	- -	- - -	- - - -	- - -	- - -		3 391 20 162 27	6,000 97,750 4,000 32,400 5,400	00
Number of posticial cars, Number of ex Number of boo Number of sto Number of pla Number coal of	press x frei ock ca tforn cars,	and b ght cars,	- -	- - -	- - - -				3 391 20 162	6,000 97,750 4,000 32,400	00
Number of p	press x frei ock ca tforn cars,	and b ght cars,	- -	- - -	- - - -	-	-		3 391 20 162 27	6,000 97,750 4,000 32,400 5,400	

	Number of locomotives equipped with power brakes, 5
•	Number of passenger-train cars equipped with
	power brakes, 13
	What patterns of power brakes have you in use, and
	number of locomotives and cars with each?
	Westinghouse automatic air brake.
	Are your freight cars being equipped with automatic couplers
	as required by Act No. 147, Session Laws of 1885?
	None built or rebuilt.
	What pattern or patterns have you adopted for use?
	None.

# MILEAGE, TRAFFIC ETC.

# Train Mileage

Miles run by passenger trains dur Miles run by freight trains, Miles run by mixed trains,	ring - -	the - -	year, -	- -	-	-	152,861 88,769 17,270
Total mileage of trains ear	ning	reve	nue,	-	-	-	258,900

#### Passenger Traffic.

	Numbers and Quantities.	Miles.	Rate. Dolls. Cts.
Number of through passengers carried,	5,833		
Number of local passengers carried,	63,572		
Total number of passengers carried,	69,405		
Total passenger mileage, or passengers carried	one mile,	1,994,582	
Average distance traveled by each passenger,		28.73	
Average amount received from each passenger			<b>\$</b> 0 <b>64</b>
Average rate of fare per mile for through pass			02.71
Average rate of fare per mile for local passeng			02.12
Average rate of fare per mile for all passenger	18,		02.23

#### Freight Traffic.

Number of tons of through freight carried, Number of tons of local freight carried,	77,30' 114,97	
Total tons of freight carried,	192,28	- 5
Total mileage of through freight,		4,972,797 11,533,961
Total freight mileage, or tons carried one	mile.	16,506,758

ioonj Cincinnati,	JACABC	א אנ	MAC	ZIM	7 AA 1	MILLIAN	JAD CO.	0,00
Average ton haul for thro	ach fre	ioht					64.32	
Average ton haul for local	fraight		_	-	-	-	100.31	
Average ton haul for all fr			-	-	-	-	85.84	
Average amount received	gigito, .		- bonl	-	-	-	00.04	<b>A</b> 01
						_ !:	-	<b>\$</b> 61.
Average rate per ton per n	1110, 100	eived	loru	nrou	ığıı ı	reight	,	00.43
Average rate per ton per r								00.84
Average raté per ton per m	ile, rec	91 <b>7</b> 60	ior a	il Ir	eigh	t, _		00.71
The of all	A 4		4 3/2-1	L. d'	C/4	W		
r reign	t forwa	ueu u	t Mitoi	nyan	, Suu	10718.		Forwarded, Tons.
Grain,								16,653
Flour,	•	•	-	-	-	-		4,567
Provisions (beef, pork, lare	- - Ato 1	•	-	-	-			567
Animals,	u, 600. /	,	-	-	-	-		
Other emissions and and	<b>-</b> .	-	-	-	-	-		3,476
Other agricultural product	<b>68</b> , .	-	-	-	-	-		3,099
Lumber and forest produc	-		-	-	-	-		14,666
Coal, Plaster, lime and cement,			-	-	-	-		900
Plaster, lime and cement,			-	-	-	-		562
Salt,		-	-	-	-	-		15
Petroleum,			-	-	-	-		116
Railroad iron, iron and ste	el rails,	,	-	-	-	-		14
Pig and bloom iron,				-	_	_		222
Pig and bloom iron, Other iron and castings,			_	_	_	_		242
Stone, brick and sand,		_	_	_	_	_	_	2,512
Manufactures,—articles sh			- point	of	hora	nction		1,723
Merchandise and other art	icles no	t en	mar	ted	ahov	A.	, •	5,219
						-, -		
Total forwarded,		•	-	-	-	-		54,553
Tonnage of	'Article	. Tra	nsport	ed.—	Enti	re Roa	d.	
			•	•			Tons,	Per Cent.
Grain,							16,677	8.67
Flour,			-	-	-	-		<b>2.38</b>
Provisions (boof north low	٠ مهم آه	•	-	-	•	-	4,567	
Provisions (beef, pork, lar			-	-	-	-	635	.33
Animals, . Other agricultural product			. •	-	-	-	3,535	1.84
Other agricultural product	<b>.8</b> ,		-	-	-	-	3,113	1.62
Lumber and forest produc	t <b>s</b> , .			-	-	-	15,598	8.12
Coal,			-	-	-	-	122,970	63.95
Plaster, lime and cement,			-	-	-	-	1,156	.60
Salt,			-	-	-	-	106	.05
Petroleum,			-	-	_	-	672	.35
Railroad iron, iron and ste	el rails			_	_	_	14	
Pig and bloom iron,			_	_	_	_	396	.20
Other iron and castings,			_	_	_	_	1,693	.88
Stone, brick and sand,			-	~	-	-	2,752	1.44
Manufactures,—articles sh	inned f	rom i	- noin+	of	nrod	inc.	~,~	TITE
tion,	-bhon r	.v	Lorno	OI.	Proc	.uv-	3,101	1.61
Merchandise and other art	icles no	t enu	mera	ted :	abov	- θ, <sub>-</sub>	15,300	7.96
							···	
Total tons carried,		-	•	-	-	-	192,285	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company, 7 cents per ton per mile, general express busi-

ness; freight taken at depot.

#### Telegraph.

Number of mil								does i	t belon	
Wetern Union This Compa			mpar	ıy,—n -	niles,		-	-	-	122 11
Total,	•	_	_		_	_	_	_	-	133

#### TRANSPORTATION COMPANIES.

#### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company, Chicago, Ill.

Sleeping cars, 3 cents per mile.

Amount paid for mileage in Michigan, \$641.52.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Merchants' Despatch Transportation Company, New York American Refrigerator Transit Company, St. Louis, Mo.,	City,	-	\$33 7	33 05
Anglo American Refrigerator Car Company, Chicago, Ill.,	-	-		73
Union Tank Line, New York city, Allen Paper Car Wheel Company, Chicago, Ill.,	-	-	39	38 96
Total,	-	_	\$81	<u>-</u>

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### KILLED.

April 13. Ervin Coates, Battle Creek, deaf-mute, struck by passenger train while fishing from railroad bridge.

#### INJURED.

- April 8. J. R. Gilson, conductor, near Moscow, derailment; accidental.
- April 8. Mrs. E. L. Bell, passenger, near Moscow, derailment; accidental.
- April 8. W. L. Crowell, passenger, near Moscow, derailment; accidental.
- April 8. Wm. Morton, passenger, near Moscow, derailment; accidental.
- April 8. Mrs. W. Main, passenger, near Moscow, derailment; accidental.
- April 8. Mrs. L. Young, passenger, near Moscow, derailment; accidental.
- April 8. E. P. Patterson, passenger, near Moscow, derailment; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.			Injured.			
Chapte of Accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.		
Collisions								
Coupling cars	!							
Derailments				6	1			
Falling from trains						! 		
Frogs								
Getting on and off trains					 			
Highway crossings				) 				
Miscellaneous		, 			! <sub>1</sub>			
Overhead obstructions						 		
Trespassers on trains					: 			
Trespassers on tracks	···.		1					
	-!			¦				
Total	1		1	6	1			

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,		_	_	_	1
Number of persons injured during the year,		_	-	_	7
Number of casualties purely accidental,	-	-	-	_	7
Number resulting from lack of caution, careless	3ne <b>s</b> s,	or mi	iscond	uct,	
Persons killed or injured while intoxicated,		_	-		_
Trespassers and tramps killed or injured,	_	_	_	-	1
Suicides.	_	_	_	_	_

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			1
Brakemen,			
Conductors	.	1	1 .
Engineers	.		
Firemen		 	
Laborers			
Shopmen			
Yardmen			
Not classified above			
Total		1	ļ

STATE OF OHIO, SS. COUNTY OF LUCAS,

F. B. Drake, General Manager, and F. S. Anable, comptroller, of the Cincinnati, Jackson & Mackinaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. B. DRAKE, F. S. ANABLE.

Subscribed and sworn to before me this 19th day of May, A. D. 1888.

[L. S.]

C. A. CARLISLE,

Notary Public for Lucas County, Ohio.

#### REPORT OF EARNINGS

OF

#### GEORGE L. BRADBURY, RECEIVER

OF THE

# MICHIGAN & OHIO RAILROAD COMPANY,

For the Period of January 1 to February 28, 1887, inclusive.

The following are the earnings of Geo. L. Bradbury, Receiver, of the Michigan & Ohio Railroad Company, during the period of January 1st to February 28th, 1887, inclusive:

Total earnings for the period	l <b>,</b>	-		-	-	-	-	\$30,118 14
Total mileage operated,—miles, Mileage operated in State of Mi	- chigs	- in,-	-m	iles,	-			156 150 NABLE, or Receiver.

On this 9th day of June, A. D. 1888, personally appeared before me, a Notary Public within and for said Lucas county, Ohio, the above named F. S. Anable, who, being by me first duly sworn, says that the above report of earnings is in all respects just and true as he verily believes.

ELLSWORTH M. BEARD,

Notary Public.

#### ANNUAL REPORT

#### OF THE

# TOLEDO & SOUTH HAVEN RAILROAD COMPANY.

For the Year ending December 31, 1887.

[ Filed June 14, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, LUCIUS CLARK, South Bend.
Secretary, W. G. GEORGE, South Bend.
Treasurer, JOHN IHLING, Lawton.
General Superintendent, JOHN IHLING, Lawton.

#### DIRECTORS. '

LUCIUS CLARK, South Bend, Ind.
W. G. GEORGE, South Bend, Ind.
J. IHLING, Lawton, Mich.
HENRY FORD, Lawton, Mich.
F. B. ADAMS, Lawton, Mich.
J. W. FREE, Lawton, Mich.
EDWIN MARTIN, Lawton, Mich.
Term expires January 10, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—April 21st, 1886.	
Number of stockholders at date of last election,	7
Number of stockholders in Michigan at same date,	5
Amount of full paid stock held in Michigan at same date,	B10 00
Date of annual meeting of stockholders,—Second Tuesday in January.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Lawton, Mich.	

#### REMARKS.

This property as at present operated, consists of the old Paw Paw and Toledo & South Haven Railroads, as originally constructed, but purchased and consolidated by the present Company September, 1886. The consolidation did not go into actual effect until the following year, when the road was extended to its present western terminus at South Haven.

#### GENERAL EXHIBIT.

			D	BBI7.		CREDIT.	
Total income,	<u>-</u>	-	\$8,518 61			. <b>\$22,426</b> L	
Net income,	-	-	-	-	-	13,907	82
Interest on funded debt,	-	-	<b>\$3</b>	,700	00		
Balance for the year,	-	٠-	-	-	-	10,207	82
Balance last year, including Paw Paw Items not included in above as follow	8:		-	-	-	17,210	18
Unfunded debt of T. & S. H. and P Railroads prior to consolidation, Balance forward to next year,	-	Pa₩ - -		,697 ,720			
			\$27	,418	00	\$27,418	00
ANALYSIS OF	CAI	PITAL	STOCK	•	•		
· · · · · · · · · · · · · · · · · · ·	100	00	ociatio	n,	-	\$250,000	00
Number of shares issued, Amount paid in on common,			<b>\$100</b>	,000	00		
Total amount paid in, as per boo	ks (	of the	Compa	ny,	-	100,000	00
Paid in per mile of road owned by pany,—Miles, 36.60,	<del>у</del> С	om-	<b>\$</b> 2	,732	21		

Total,

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue	Rate		When Due.			here Able.	Amoun	
First mortgage bonds	6 per ce	6 per cent		30 years		ork city	\$216,000 00	
Total funded debt							\$216,00	00 00
•	RECAPIT	PTT T	ATTON					
Total funded debt,	B.BOAFII	_	AIION.				<b>\$</b> 2.6,000	00
Total debt liabilities,	_		_	_	_	_	\$216,000	
Amount of debt liabilities pe	r mile of	r	ad [36.	60	miles],	-	5,901	
Total amount of stock and de		_	_	_	,	_	316,000	
Stock and debt per mile of re		-	-	-	-	-	8,633	
GENER.	AL BALA	N	E SHE	ЕŤ,	—Dr.			
Construction account,	<b>\$</b> 126,	300	00	8:	228,550			
Equipment account,	•	-	-		5,530 		<b>\$234,</b> 080	00
Cash items:	_			_		_	1,295	
Other assets:  Materials and supplies,		_	_	_	<b>\$</b> 1,512	65	_,	
Debit balances from comp	anies an	d i	indi-		-			
viduals, - Trustees' first mortgage bo	nds,	-	-		14,832 76,000			
	·			_			92,345	04
Total,	-	-	-	-	-		8327,720	47
GENER.	AL BALA	N	CE SHE	et,	—Cr.			
_					•			
Capital stock, Funded debt,	-	-	-	-	-	. 8	\$100,000 216,000	

\$327,720 47

### COST OF ROAD AND EQUIPMENT.

COST OF ROAD AND EQUIPMENT.		
Total cost for Construction and Equipment of Road, and Branches	Buil	lt by Company.
Total expended for construction and equipment, Average cost per mile of road (not including sidings),	-	<b>\$234,</b> 080 00
36.60 miles,	-	6,395 62
Proportion of cost for Michigan,	-	234,080 00
Purchased by Present Company.		
When purchased,—September, 1886.		
Original cost to present Company, of road and equipment,	-	\$126,300 00
Amount expended since purchase, account of construction,		102,250 00
Amount expended since purchase, account of equipment,	-	5,530 00
Total cost to date of report,	_	234,080 00
Proportion of cost for Michigan,	-	234,080 00

#### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

#### MAIN LINE.

Extensions,	-	-	-	-	-	-	-	-	-	\$102,250 00
New cars,	•	•	-	-	-	-	-	-	-	5,530 00
Total,	•	-	-	-	•	-	•	-	-	<b>\$</b> 107,780 00
Total cha	arges t	o pro	perty	accou	nt as	above	9, -	-	-	\$107,780 00
Net addition	to pro	perty	accou	nt,	-	•	-	-	-	107,780 00

#### ANALYSIS OF EARNINGS.

#### PASSENGER EARNINGS.

Main line and branches: Local fares,	-		-	\$12,047 82	
Total passenger fares, _	-	-	-	\$12,047 82	
Express and baggage,	-	-	-	950 91 861 64	
Maiis,	-	-	-	801 04	
Total passenger earnings,	-	-	-		\$13,860 37
Proportion for Michigan,	-	-	•	\$13,860 37	
Per train mile,	-	•	-	37 11	
Per mile of road.	_	_	_	378 69	

#### PREIGHT EARNINGS

		FE	REIGHT	C RYE	NING	3				
Main line and Local traffic		-	•	-	-		8,566	06		
Total traff	fic, .	•	-	-	-		8,566	06	*	
Total frei	ght earnings	١,	-	-	-	-	-	-	8,566	06
Proportion for	Michigan,	-	-	-	-		8,566	06		
Per train mile				_			22	94		
Per mile of ro	ad, -	-	-	-	-		234	04		
Total tran	sportation	arni	ings,	-	-	-	-		\$22,426	43
Transportation					ad,		612	74 60.05		
Total earn	ings from o	pera	tion o	f roa	d,	•	-	-	\$22,426	43
Total earnings Total earnings Proportion of	per train m taxable earr	ile, ings	for 1	- Michi	gan,	- 2	612 2,426	60.05		
Total taxable Michigan,		- -	- 116 OT	-	-		612	74		
Total inco	ome from all	sou	rces,	-	-	-	-	-	\$22,426	43
Proportion of	income for	Micl	nigan,	-	-	-	•	-	22,426	43
	£	LNAI	LYSIS	OF E	XPEN	SES.				
	CLASS 1.—	-Mai	ntenan	ce of	Way o	ınd B	uilding	78.		
Repairs of ros	dway and tr	ack,	-	_	-	-	-	-	<b>\$1,21</b> 6	
Renewals of ti	<b>88</b> , _	_		-	-	-	-	-	<b>54</b> 0	
Repairs of bri	dges, includ	ing (	culvert	s and	l catt	le gus	rds,	•	33	60
Repairs of fen	ces, road or	ossin	gs, an	d sign	ns,	•	-	-	28	00
Repairs of but		-	-	-	-	-	-	-	19	40
Total,		-	•	-	-	-	-		<b>\$1,838</b>	00
	CLASS 2.—M	ainte	enance	of Me	otive I	ower	and C	ars.		
Repairs of loc	omotives,	-	-	-	-	-	_		67	20
Repairs of pas		-	-	-	-	-	-	-	12	14
Repairs of fre		-	-	-	-	-	-	-		19
Total,		-	-	-	-	-	•	-	\$112	<b>53</b>

	CLAS	8 8.—	Condu	cting	Trans	porta	tion.			
Fuel for locomoti	ves, .	_	_	-	_	_	_	-	\$1,130	85
Water supply,		_	-	_	_	_	-	_	-	00
Oil and waste,	_	_		-	_	_	-	-	-	40
T 11		_	_		_	-	-	_	1,280	
Passenger train a	ervice,		_	-	_	_	_	_	673	
Passenger train s	upplies,	-	-	_	-	_	_	-		72
Damage and loss	of freigh	nt an	d bagg	zage,	_	_	_	_	26	65
Agents and static	n service	· -	_		_	_	_	_	1,020	
Station supplies,	-	<b>.</b>	-	-	-	-	-	-	118	
Total,	-	-	-	-	-	-	-	_	\$4,405	37
	•	CLASS	4.—G	eneral	Ecope	:nees.			-	
Salaries of the ge	aneral of	ficers	of th	e Coi	mnan	u .			\$1,200	ሰሴ
Salaries of clerks	in gene	ral o	ffices.	-	-Lan	,,	-	-	360	
Insurance,	THE BOHO	141	- -	•	-	-	•	-	35	
Stationery and pr	inting.	-	-	-	-	•	-	•	88	
Contingencies, -		•	•	-	-	-	-	-		59
Taxes,	-	-	-	-	-	-	-	-	448	
10200,	•	-	-	-	-	-	-		<del></del>	
Total,	-	-	-	-	•	-	-	-	<b>\$2,162</b>	71
	RE	CAPIT	ULAT	0 140	F EX	PENS		-4 -4		
							Per Ce Exper			
Maintenance of w	av and b	ouildi	ngs.	_	_	_	19	.30	\$1,838	00
Maintenance of m				rs,	-	-	1	.18	112	
Conducting trans	portation	a.	_	_	-	_	46	.30	4,405	37
General expenses			Xes,	-	-	-	33	.22	2,162	
Total operati	ing exper	ises s	nd ta	K68,	•	-	100	.00	\$8,518	61
Operating expens	es and t	axes ]	per mi	le of	road,	-	<b>\$260</b>	08		
Operating expense for trains earning Proportion of o	ing rever	aue (	37,343	mile	B),	_		25.49		
Michigan: Main line,		-	-	-	-	-	8,518	61		
Total propor	tion of e	xpen	ses for	Mich	igan,	-		_	\$8,518	61
Percentage of exp	nangag ta	Agrn	inge		49	.44				
Net earnings per				-	**	. 33	352	80		
Net earnings per	train mi	ivau, ile	-	-	-	-	JUA	34.56		
Tien earmings her	AT COLUMNIA	,	-	•	-	-		UT. UV		

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Lawton to Paw Paw, 1867.

From Paw Paw to Lawrence, 1877. From Lawrence to Hartford, 1883. From Hartford to South Haven, 1887.

MAIN LINE.			
T. W. L.	Mile	s,100ths, Miles	. 100ths.
In Michigan: From Paw Paw to South Haven,	_ 3	6 60	
Total length completed,		- 8	6 60
Total length of road belonging to this Company, Total length of road belonging to this Company i		- 3	6 <b>60</b>
Michigan,	_ 8	6 60	
Aggregate length in Michigan of sidings, spurs, an other tracks not above enumerated,	-	1 01	
Aggregate length of tracks in Michigan belonging this Company, computed as single track, Gauge of track, 3 feet.	. 8	7 61	
Gauge of Mack, 5 1000.	Total 3	diles. In Mic	hicen
Total miles operated by the Company,			6 60
Number of Bridges and Trestles in Michi	gan.		
Wooden trestles, number of, _ 11; aggregate length	h, feet,	_	1,140
Total, 11;			1,140
Draw Bridges in Michigan.			
How many on your line?		]	None.
Crossings—Railroad and Highway.		•	
What railroads cross your road at grade in this State, a Chicago & West Mich. R. R., at Hartford.  At what crossings are interlocking and derailing switch Hartford.  What pattern or patterns have you adopted?  Allentown Rolling Mills, Pa.			y ?
Number of crossings of highways at grade in this State	e, <u> </u>		21
Number of crossings of highways at grade in this S which there are gates or flagmen,	tate at	]	None.
Are your frogs and guard rails blocked as required by 174, Session Laws of 1883? Yes. How are they treated? Blocked with wood.	Act No.		
Stations.			
Number of stations on whole line, Same in Michigan,			6 6

# Employés.

Number of per	sons re	gular	ly empl	loyed	on all	roads	oper	ated	
by Company	, includ	ing o	fficials,	٠.	_	-		•	21
Same in Michig	zan, .					-	-	-	21
Classify your e	mployé	вавр	er follo	wing	list:				Number.
Baggagemen,									Number.
Brakemen,	-	•		•	•	-	•	•	ī
Conductors,			. <u>-</u>	•	-	-	•	_	2
Engineers,				_			_	_	2
Laborers, -	•	•		-	-	•	-	-	12
		RF	PAIRS	AND	RENE	WALS.			
			Fencir	ıg in İ	Michiga	ın.			
How many mile	es of fe	ncing	have v	ou ?	_	_	_	_	40
Give the numb sides of your needed:	track,	miles in Mi	require chigan,	ed to and	the co	lete fe unties	nce t in wh	ooth nich	
Thirty-two m	iles; V	an B	uren co	unty.	•				
			Road	Bed as	nd Tra	c <b>k.</b>			
Number of trac	k section	ns in	Michia	zan.	_	_	_	_	6
Average length					_	_		-	6
Average numbe							-	_	2
Number of new								-	3,610
Number of new							ad,	-	3,610
Average numbe			per mi	le of	road,	-	-	•	180
New rails put in	track:	-	· -	-	-	-	-	-	None.
			Bridge	s and	Culver	is.		•	
Amount of tres	tle wor	k ren	laced w	rith e	arth d	Inring	the v	AST	
(linear feet),		<sub>F</sub>			_	8	-	_	None.
Timber culverts		ed du	ring th	e vea	r	_	-	-	None.
New bridges bu							-	-	6
	<del></del>								Fact in
Location.			Kind.		Mai	terial.	Mo	nth Built.	Feet in length.
							-		

Location.	Kind.	Material.	Month Built.	Feet in length.
Near South Haven	Bent trestle	Wood		800
Near Covert	Bent trestle	Wood		130
Near Covert	Bent trestle	Wood		86
Two miles south of Covert	Bent trestle	Wood		94
Near Hales	Bent trestle	Wood		• 115
Near Hales	Bent trestle	Wood		50
Total				775

ROLLING S	Vembor	Present					
Number of locomotives of 10 to 20 tons	weight	Number.	Present Estimated Value.				
exclusive of tender,		3	<b>\$12,000 00</b>				
Total,		3	\$12,000 00				
Number of passenger cars—8-wheel,	including						
official cars.		1	2,500 00				
Number of express and baggage cars, con	nbination	_	,				
and passenger,		2	3,000 00				
Number of box freight cars,		12					
Number of platform cars,		16	3,600 00				
Other cars as follows:			·				
Hand cars and velocipedes,		12	560 00				
Total,		43	\$26,460 00				
Number of locomotives equipped wit	h nower						
brakes,		2					
Number of passenger-train cars equip	ped with						
power brakes,		3					
Number of freight cars equipped with brakes.	h power	1					
Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? No.							
What pattern or patterns have you adopted for use?  Have not purchased new or repaired old cars since law took effect.							

# MILEAGE, TRAFFIC, ETC.

#### Train Mileage.

Miles run by mixed trains,		-	-	-		37,343
Total mileage of trains earning revenue,		•	-	-		37,343
Passenger Traffl	lc.					
Number of local passengers carried,	Numbers and Quantities. ber of local passengers carried, 25,099		ities.	Miles.		Rate.
Total number of passengers carried,		25,	099			
Total passenger mileage, or passengers carried Average distance traveled by each passenger,		e mi	ile,	376,8	45 15	
Average amount received from each passenge Average rate of fare per mile for all passeng	r,	-	-	-		03.22

Total tons carried, 68

## Freight Traffic.

			-	reyn	et 17u	yu.				
Number of	tons of 1	ocal f	reight	carr	ied,	-	24,	800		
Total to	ns of fr	eight	carrie	d,	-	•	24,	800		
Total freigh	t mileage	e, or t	ons ca	rried	one	mile,	-	-	372,000	•
Average ton					-	, -	٠.	-	15	
Average amo	per ton	per m	or eac	eceive	n nau	all f	reigh	- t, _		\$34 02.80
Freight Forwarded at Michigan Stations.										
	2	rogiu	rorus	us wow	u+ 112	ecresy a	n su			Forwarded, Tons.
Grain, -	-	_	-	-	-	-	-	-		1,813
Flour, -	-	-	_	-	-	-	-	-		178
Provisions (	beef, por	k, lar	l, etc.	.),	-	-	_	-		46
Animals,		_	_	•	-	-	-	_		702
Other agricu	altural p	roduci	8,	-	-	-	_	_		950
Lumber and	forest p	roduc	ts,	-	_	-	_	-		1,650
Coal.	. •	_	•	_	_	-	-	-		406
Plaster, lim	e and cer	ment,	_	_	-	-	_	_		156
Salt,	_	_ ′	_	_		-	-	_		126
Petroleum.	-	-	-	_	-	-	_	-		52
Iron and car			-	-	-	-	-	_		292
Stone, brick			• .	•	-	-	-	-		124
Manufacture	a —artic	olog gh	inned	from	noin	t of n	rod na	tion		334
Merchandis	and oth	AP art	iolog i	not as	nnma	rated	ahove	,		1,283
ALOI CHAHAIS	J GILG OUL	ioi ait	10105 1	100 01	u IIIO	1 agood	40010	' <b>,</b> -		
Total f	orwarded	l,	-	-	-	-	-	-		8,112
	Ton	nage o	f Arti	icles T	Transn	orted-	– Enti	re Roa	đ.	
			,						Tons.	Per Cent.
Grain.	_	_	_	-	_	_	_	_	1,813	
Flour,	•	-	<u>-</u>	<u>-</u>	-	•	-	-	178	
Provisions (	heef no	k. lar	d. etc	ι. <b>.</b>	-	-	-	-	46	
Animals,		m, iai	<b>u,</b> 000	· />	-	•	-	•	702	
Other agric	nltural n	- rodno	ta -	-	-	-	-	-	950	
Lumber and	l forest r	roduo	ta.	-	-	-	-	•	1,650	
Coal,	r roreer F	noauc	,,	-	-	-	-	-	406	
'Diagton line	. and	-	-	-	-	-	-	-	156	
Plaster, lim	e with Gel	пепі,	-	-	-	-	-	-	126	
Salt, -	-	-	-	-	-	-	-	-	120 52	
Petroleum, Iron and ca Stone, brick	-	-	-	-	-	-	-	-		
Tron and car	sungs,		-	-	-	-	-	-	292	
Stone, brick	E BILG SAI	1a,	- 	<u>.</u>	<u>.</u> .,	- 4	- 3-		124	
Manufactur	es,—arti	CIGS ST	ripped	Iron	n pon	nt of	produ	iction,	, 334	-
Merchandis	e and ot	ner ari	101 <b>68</b>	not	enum	erate	a abo	∀θ, —	1,283	15.81

100.00

8,112

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do-you take their freights at the depot, or at the office of such express companies?

American.

So much per 100 lbs., varying according to distance.

Carry valuables and light merchandise.

Deliver and receive at depots.

STATE OF MICHIGAN, COUNTY OF VAN BUREN, 88.

J. Ihling, Superintendent of the Toledo & South Haven Railroad Co., being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company on the thirty-first-day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, J. IHLING, Superintendent.

Subscribed and sworn to before me this 13th day of June, A. D. 1888.

J. H. HALL,

Notary Public.

#### ANNUAL REPORT

OF THE

# DETROIT UNION R. R. DEPOT & STATION COMPANY,

For the Year ending December 31, 1887.\*

[Filed May 16, 1888.]

#### NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY,

President. JAMES F. JOY, Detroit, Mich. Vice President, ALLAN SHELDEN, Detroit, Mich. Secretary, JAMES G. MILLER, Detroit, Mich. Treasurer, JAMES F. JOY, Detroit, Mich.

#### ORGANIZATION, ETC,

#### CAPITAL STOCK.

By Whom Subscribed.	Residence.	Number of Shares.	Amount.
James F. Joy	Detroit, Mich	1,666%	\$166,667 00
C. H. Buhl	Detroit, Mich.	1,666%	166,667 00
Allan Shelden	Detroit, Mich	1,666%	166,667 00
James McMillan	Detroit, Mich	1,250	125,000 00
John S. Newberry	Detroit, Mich.	1,260	125,000 00
R, A. Alger	Detroit, Mich.	8883%	83,548 00
M. S. Smith	Detroit, Mich.	888%	88,883 00
George W. Balch	Detroit, Mich.	888⅓	88,383 00
Total		11,000	\$1,000,000 00

<sup>\*</sup> This Report is made pursuant to the requirements of Act No. 244, Session Laws of 1881, and th several acts amendatory thereof.

# STOCKHOLDERS, DECEMBER 81, 1887.

Names.	Residence.	Amount Held.	•
James F. Joy	Detroit, Mich	\$383,833	Of
C. H. Buhl	Detroit, Mich.	180,000	00
Allan Shelden	Detroit, Mich	225,000	OX
James McMillan	Detroit, Mich	125,000	or
John S. Newberry	Detroit, Mich.	125,000	α
George W. Balch	Detroit, Mich.	11,067	Œ
Total	•	\$1,000,000	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

There is no indebtedness except one of \$550,000.00 to the Connecticut Mutual Life Insurance Company.

#### UNFUNDED DEBT.

None.

#### RECAPITULATION.

•			RECAL	ITUL	TION	•				
Total funded debt,	-	-	-	-	•	-	-	-	\$550,000	00
Total indebtedne	88,	-	-	-	-	-	-	-	\$550,000	00
Total stock and debt,	٠.	-	-	-	-	-	-	-	1,550,000	00
				COST.						
Of real estate, include							-	-	\$1,268,172	
Of depot buildings a Of elevators and belo						-	-	-	62,478 303,595	
Of all other property	, inc	ludi	ng int	erest	on u			or-	•	
tion of depot grou	nds,	-	-	-	-	-	-	-	313,465	93
Total cost, _	-	-	-	-	-	-	-	-	\$1,947,712	95
	CA	SH F	AID '	<b>ro c</b> o	RPOE	ATIO	N.			
On account of origin	al ca	pital	stock	ζ, _	-	-	-	-	<b>\$1,000,000</b>	00
Total cash paid.	_							_	\$1,000,000	00

#### TRACK.

Length of single main track—miles,	-	_	•	-	3.34
Length of second or double track—miles		-	-	-	None.
Length of sidings and other tracks—mile	e <b>s</b> ,	-	-	-	3.50
Not above enumerated—miles,	-	-	-	-	None.
Total track,	-	-	-	-	6.84

#### ANALYSIS OF EARNINGS AND EXPENSES.

#### EARNINGS.

From rentals, From all other sources,						-		\$68,743 08 103,137 77
Total earnings,	-	-	-	-	-	-	-	<b>\$</b> 171,880 85

#### EXPENSES.

# Operating.

Salaries of officers and clerks, Management and maintenance, Taxes and insurance,		-	- -	- -	-	-	2,000 00 20,393 68 8,043 44
Total,	_	-	_	•	-	_	\$30,437 12

#### Property Account.

Miscellaneous,	-	-	-	-	•	-	•	-	-	56,530 57
----------------	---	---	---	---	---	---	---	---	---	-----------

#### RECAPITULATION.

Expenses for operating and ta	XOS :	and in	suran	ce,	-		\$30,437 12
Expense for property account,					-	-	56,530 57
Total expenses for the year,	-	-	-	-	-	-	86,967-69

#### ADDITIONAL INTERROGATORIES.

# Description and Character of Buildings and Other Property.

Passenger houses, number,	-	-	-	-	_	1
Freight houses, brick, number, _	•	-		-	-	1
Engine or roundhouses, number,	-	-	-	-	-	None.
Sheds, freight, number,	-	-	-	-	-	1
Sheds, fuel, number,	-	-	-	-	-	None.
Water tanks, number,	-	-	-	-	-	None.
Water front and docks, feet,—about,		-	-	-	-	2,600

#### Street Crossings, etc.

At grade—number,	-	-	-	-	-	None
With gates or flagmen—number,	-	_	-	-	-	None
Over or under grade,—number, .	_	-	_	-	-	None
Overhead bridges,—number,	_	-	_	_	-	None.
Frogs and guard rails, are they block	ked 8	s requi	red l	by law	? _	Yes.

#### Contracts and Leases.

What railroad companies have rented terminal privileges from you during the year and on what terms?

The Wabash, St. Louis & Pacific R. R. Co., paying therefor seven per cent interest on the cost of the property occupied by that Company.

#### VERIFICATION.

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

James F. Joy, President, and James G. Miller, Secretary, of the Detroit Union R. R. Depot & Station Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES F. JOY, JAMES G. MILLER.

Subscribed and sworn to before me this 14th day of May, A. D. 1888.
[L. s.]
G. H. STALKER,

Notary Public.

#### ANNUAL REPORT

#### OF THE

# ONTONAGON & BRULE RIVER RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed June 28, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, EZRA RUST, Saginaw, Mich. Vice President, ANGUS SMITH, Milwaukee. Secretary, E. MARINER, Milwaukee. Auditor, JOHN C. SPENCER, Milwaukee. Treasurer, GUIDO PFISTER, Milwaukee. General Agent, JAS. MERCER, Ontonagon.

#### DIRECTORS.

EZRA RUST, Saginaw, Mich. THOS. NESTER, Detroit, Mich. ANGUS SMITH, Milwaukee. GUIDO PFISTER, Milwaukee. EPHRAM MARINER, Milwaukee. JAMES C. SPENCER, Milwaukee.

Term expires July, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 10, 1880.	
Number of stockholders at date of last election,	9
Number of stockholders in Michigan at same date,	8
Amount of full paid stock held in Michigan at same date,	None.
Date of annual meeting of stockholders,—Second Thursday of July.	
Fiscal year of Company ends December 81.	
·General offices of the Company are located at Milwaukee.	

# GENERAL EXHIBIT.

			DEBIT.		CREDET.	
Total income,	-	-	\$5,336	13	\$4,431	80
Net deficit,	-	-	\$904	33		
Balance for the year,	-	-	\$904	33		
Balance (profit and loss) last year, Balance forward to next year,	-	-	13,610	17 -	14,514	<b>50</b>
			\$14,514	50	\$14,514	50
ANALYSIS OF  Amount authorized by charter or are Par value of shares,  Amount paid in on shares not issued (	ticles	of ass	ociation,	- 00	\$1,000,000	00
Total amount paid in, as per bo	-			-	490,170	00
Paid in per mile of road owned pany,—miles, 20,	b <b>у</b> О	om- -	<b>\$24,5</b> 08	50		

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

None.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be Funded, or how Liquidated.	Amount.
For construction		
For real estate		
For renewals.	 	
For miscellaneous		! !
For current balances		\$84,859 1
Makal and and Jake	·	884,869

#### RECAPITULATION.

Total unfunded debt,	-	-	-	-	_	-	-	<b>\$</b> 34,359	95				
Total amount of stock	c and	debt,	-	-	-	-	-	\$34,359	95				
Stock and debt per mile o	f roa	đ,	-	-	-	-	-	1,717	99				
GENERAL BALANCE SHEET.—Dr.													
Construction account,	_	_	_	_	<b>\$</b> 49	2,303	96						
Equipment account,	-	-	•	-		7,062		<b>•</b> 500 266	<b>E</b> 1				
Other assets:								<b>\$</b> 509,366	<b>∌</b> 1				
Debit balances from co Income account,	mpar	nies ar	ıd in	di <b>v</b> id	uals,	-	-	1,978 14,514					
•	-	-	-	-	-	-	-		_				
Total,	-	-	-	-	-	-	-	<b>\$</b> 525,859	95				
GEN	ERAL	BAL	ANCE	SHE	ET,—(	CR.							
Capital stock, amount sub	scrib	ed,	-	-	-	_	-	\$491,500	00				
Unfunded debt: Vouchers and accounts,	<b>-</b> .	-	•	-	-	_	-	34,359	95				
Total,	-	-	•	-	•	-	-	\$525,859	95				
COST	OF	ROAD	AND	EQUI	PME	NT.							
Total Cost for Construction a	nd Eq	[uipme	nt of I	Road (	ind B	ranche	s Bui	lt by Compa	ny.				
Total expended for constr Average cost of constructi	uction on pe	n and or mile	equip of r	ment oad (	, - not i	- ncludi	- ing	\$509,366	51				
sidings) 20 miles,		-	-	-	· <u>-</u>	-	-	25,468					
Proportion of cost for Mic	higar	1,	-	-	-	-	•	509,366	51				
CHARGES AND CR	EDIT	в то в	PROP	ERTY	DUR	ING 1	HE '	YEAR.					
		MAIN	ILIN	E.				,					
Construction,	-	-	-	-	-	•	-	\$5,787	00				
Total,	-	-	•	-	-	-	-	\$5,787	00				
Total charges to property 69	accor	ınt as	abov	е,	-	-	-	5,787	00				

# ANALYSIS OF EARNINGS.

#### PASSENGER EARNINGS.

Main line and branches: Local fares,	-	-	-	-	-	-	-	<b>\$</b> 1,318	90
Total passenger fares,	-	-	-	-	-	<b>-</b>	-	\$1,318	90
Total passenger earning	ıgs,	-		-	-	-	-	\$1,318	90
Proportion for Michigan Per mile of road,	,	-		-		\$1,318 65	90 95		
	FR	EIGHT	EAR	NING	8.				
Main line and branches:  Local traffic,	-	-	-	-		<b>\$</b> 3,112	90		
Total freight earnings	l,	-	-	-	-	-	-	\$3,112	90
Proportion for Michigan,						\$3,112	90		
Per mile of road,	-	-	-	-		155			
Total transportation	arni	ngs,	-	-	-	•	-	\$4,431	80
Transportation earnings pe	r mil	e of r	oad,	-		<b>\$</b> 221	59		
Total earnings from o	perat	ion of	road	l,	•	-	-	<b>\$4,4</b> 31	80
Total earnings per mile of	road	, -	-	-		221	59		
Total income from all	sour	.008,	-	-	-	-	-	<b>\$4,4</b> 31	80
Proportion of income for	Mich	igan,	-	-		4,431	80		
	ANAI	YSIS	OF E	XPEN	SES	•			
CLASS 1	-Mai	ntenan	ce of	Way a	nd B	uilding	3.		
Repairs of roadway and tr	ack,	-	-	-	-	-	-	\$1,738	44
Total,	-	-	-	-	-	-	-	\$1,738	44
CLASS 2.—A	<b>Ia</b> inte	nance	of Mo	tive 1	Powe	r and Co	ırs.		
Repairs of locomotives,	_	_	_	_	_	_	_	\$167	20
Repairs of passenger cars,	_	-	-	_	_	_	-	-	23
Repairs of freight cars,	-	-	-	-	-	-	-		81
Total,	-	-	-	-	-	-	-	\$281	24

#### CLASS 8.—Conducting Transportation.

<del></del>		iucing 1	· wildp		····			
Fuel for locomotives,		_	_		_	_	\$482	80
Oil and waste,		· •		_	_	-		19
Locomotive service,		_	_	_	_	_	1,451	
Passenger train service,			-	<u>.</u>		-	262	
Freight train service,	_ :	-	-	•	-	-	525	-
Freight train supplies,		•	-	-	-	-		12
Agents and station service		•	-	-	-	-	301	
-Bonne mad propriet por 1-00	•	•	-	-	-			
Total,		•	-	-	-	-	<b>\$</b> 3,120	81
	CLASS 4.	—Genero	al Eæp	e <b>nacs</b> .				
Stationery and printing,		. <u>-</u>	_	_	_	_	. \$2	00
Outside agencies and adve	ertising,		_	-	-	-	11	00
Contingencies,	_	. <u>.</u>	_	_	_	_	48	75
Taxes,			-	-	-	-	133	89
Total,		· -	-	-	-	-	<b>\$</b> 195	64
REC	APITUL	ATION (	) FEX	P <b>EN</b> S	ES. Per ce Expe	nt of		
Maintenance of way and b	nildings				_	.57	\$1,738	44
Maintenance of motive po			-	-	-	.27	281	
Conducting transportation			-	-	-	.49	3,120	
General expenses, including	ng taxes	- -	-	-		.67	195	
Total operating expen	ses and	taxes,	-	-	100	.00	\$5,336	13
Operating expenses and road.	taxes p	per mile	of		<b>\$</b> 266	81		
Proportion of operating ex Michigan:	penses s	nd taxe	for		<b></b>			
Main line,			-		5,336	13		
Total proportion of e	xpenses	for Mic	chigar	 1, _		_	<b>\$</b> 5,336	13
Percentage of expenses to	_		120.4				-	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Ontonagon to Rockland, August 14, 1882.

# MAIN LINE.

In Michigan,	-	-	-	-	-	-	-	-	Miles. 1 20	00ths. 1	diles. 10	Oths.
Total leng	th co	mplete	ed,	-	-	-	-	-	-	_	20	00
Total length of Total length Michigan, Aggregate lengträcks not a Aggregate lengthis Company	of ros thin bove e gth o	Michi onume f trac	gan or gan or rated ks in	ng ′to f sidin , _ Mic	this ngs, sp - higan	Com ours, a belon	pany nd oth	ner to	1	- 00 00 00	20	00
Gauge of track	, 4 fe	et 81	inche	8.		-,		_				
Total miles op	erated	by th	ъе Со	mpan	y,	-		- -	Total Mi 20	les. In OU	Michi 20	_
	Nu	mber o	of Bri	dges o	ınd Tr	restles :	in Mi	chiga	n.			
Wooden trestle	s, nur	nber o	of, _	13	; agg	regate	leng	th, f	eet,		,1,	738
Total, _	-	-	-	13	; agg	regate	leng	th, f	eet,		1,	738
•			Draw	Bridg	jes in	Michig	jan.					
How many on	your !	line?	-	-	-	-	-	<u>-</u> ·	-		No	ne.
		Cro	esings-	—Rail	road o	and H	ighwaz	y.				
Number of cro	ssing	s of h	ighwa	ays at	t grad	e in t	his S	t <b>a</b> te,	-			8
				St	ations	•					•	
Number of sta Same in Michi	tions o	on wh			-	-	- -	<u>-</u>	-			2 2
					rployé						•	
Number of per by Company Same in Michi	, inclr	ıding	officia	als, Ì	red on - -	all ro	ads o - -	pera - -	ted - -			11 11
Classify your e	mploy	rés as	per fo	llowi	ng lis	t:						
Brakemen, Conductors, Engineers, Firemen, Laborers, Others,	_			· - -							Num	1 1 1 1 5
<b>-</b>									-			

10

#### REPAIRS AND RENEWALS.

#### Fencing in Michigan.

How many miles of fencing have you?
Give the number of miles required to complete fence both
sides of your track, in Michigan, and the counties in which
needed:
Thirty miles, all in Ontonagon county.

#### Road Bed and Track.

Number of track sections in Michigan,	-	-	-	1
Average number of men in each section gang,	-	_	-	5

#### ROLLING STOCK.

Number of	Lacomot	:	~# QO	9	0 ton		-L.	Number.
Number of exclusive			- 01	-	- 0 fon	- R Meri	- Зпь,	1
Total,	-	-	-	-	-	-	-	1
Number of		er c	ars —	8- <b>w</b> h	eel, i	nclud	ing	
official ca	rs, _	-	_	_	-	-	-	1
Number of		ht c	ars.	_	-	_	_	2
Number of	platform	cars,		-	_	-	_	15
Other cars,	• -	-	-	-	-	-	-	1
Total,	-	-	_	-	_	_	_	19

#### ADDITIONAL QUESTIONS.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? We have no telegraph line.

#### TRANSPORTATION COMPANIES.

#### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

No such cars on our road.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? None.

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, ss.

E. Mariner, Secretary, and Guido Pfister, Treasurer of the Ontonagon & Brule River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

E. MARINER. GUIDO PFISTER.

Subscribed and sworn to before me this 25th day of June, A. D. 1888.

[L. 8.]

PHILIP D. KENNEDY, Notary Public, Milwaukee Co., Wis.

# ORE AND FOREST ROADS. 1887.

#### ANNUAL REPORT

#### OF THE

# ALLEGAN & LAKE SHORE RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed March 20, 1888.]

#### OFFICERS OF THE COMPANY, WITH LUCATION OF OFFICES.

President, W. S. DEWING, Kalamazoo, Mich,
Vice President, C. A. DEWING, Kalamazoo, Mich.
Secretary, C. A. DEWING, Kalamazoo, Mich.
Treasurer, J. H. MILLS, Kalamazoo, Mich.
General Manager or Superintendent, J. H. DEWING, Kalamazoo, Mich.

#### DIRECTORS.

W. S. DEWING, Kalamazoo, Mich.

C. A. DEWING, Kalamazoo, Mich.

J. H. DEWING, Kalamazoo, Mich.

J. H. MILLS, Kalamazoo, Mich.

E. F. POND, Kalamazoo, Mich.

Term expires February 8, 1888.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

9th	, 18	38.				
	-	-	-	-	•	7
	-	-	-	-		7
late,		-	-	-	\$16,300 00	)
<b>z</b> 00,	Mic	h.				
	late,	ate,	 	iate,		ate, \$16,300 00

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#### REMARKS.

This is a logging road, its business being limited to hauling logs and other forest products.

#### GENERAL EXHIBIT.

Total income,								DEB	<b>2</b> .	CREDIT. \$3,000	
Total expenses,	- incl	ıdin;	g taxes	3, _	-	-	-	<b>\$3,</b> 000	00	<b>40,000</b>	00
		Al	NALYS	sis o	F CAl	PITAL	STO	CK.			
Amount authori Par value of sha No. of shares is	res, sued,	-	-	-	ticles \$10	0 00		-		\$100,000	00
Amount paid in	on	com	mon,	-	-	-	8	16,300			
Total amou	at ps	id i	n as pe	er boo	ks of	the (	ompa	any,	-	16,300	00
Paid in per m pany,—mile	ile é s, 5,	of r	70 bao 	wned -	b <b>y</b> (	Oom-		<b>\$</b> 3,260	00 00		
		GEI	NERAL	BAI	ANC	E SHE	ET,_	Dr.			
Construction acc Equipment acco				-	-	-	<b>\$</b> 1	12,200 <b>4,10</b> 0			
						•				<b>\$</b> 16,300	00
Total,	-	-	-	-	-	-	-	-	-	\$16,300	00
		G	ENERA	AL BA	ALAN	CE SI	HEET,	,Cr.			
Capital stock,	-	-	-	-	-	-	-	-		<b>\$16,300</b>	00
Total,	-	-	-	-	-	-	-	-	-	\$16,300	00

#### ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

#### UNFUNDED DEBT.

None.

#### BECAPITULATION.

Total amount of stock and debt, Stock and debt per mile of road, 5 miles,		-	-	\$16,300 00 3,260 00

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction a Average cost per mile of road	nd equip (not in	omeni cludi:	t, _ ng sid	ings,	_ <del>-</del> 5	<b>\$16,300 00</b>
miles), . Proportion of cost for Michigan,		-	-	j.	-	2,440 00 16,300 00

#### ANALYSIS OF EARNINGS AND EXPENSES.

#### BARNINGS.

From freight,	-	-	-	-		-	-	<b>\$3,000 00</b>
Total earnings,	-	-	-	•	•.	-	-	<b>\$3,</b> 000 00
Earnings per mile of road	lope	rated,-	–5 m	iles,	-	-	-	600 00
Total earnings,	-	_	_	-	-	_	-	3,000 00
Total taxable earnings in	Micl	nigan,	_	_	_	_	_	3,000 00
Total income,	-	-	-	-	_		_	3,000 00
Proportion for Michigan,	-	-	-	-	-	-	-	3,000 00

#### EXPENSES.

		Per Cent.	Total.
Class 1.	Maintenance of way and buildings,	20	<b>\$</b> 600 <b>0</b> 0
Class 2.	Maintenance of motive power and cars,	20	600 00
Class 3.	Conducting transportation,	40	1,200 00
Olass 4.	General expenses and taxes,	20	600 00
Tota	l expenses and taxes.	100.00	<b>\$3,000 00</b>

Operating expenses and taxes per mile of roa	d ope	er-'		
ated,—5 miles,	-	-	<b>\$600</b>	00
Proportion of operating expenses and tax				
Michigan,	-	-	3,000	00
Per cent of expenses from earnings.	10	00		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: March 20th, 1887, to November 1, 1887.

#### MAIN LINE.

Name, description, and length of	f each ·				Miles.	100ths, 3	files, 100ths
In Michigan: Allegan to Dewing's camp,		-	-	_	5	00	
Total length completed,		-	-	-	-	-	5 00
Aggregate length of tracks belo	nging to	this (	ompa	ny,			
computed as single track,		-	-	-	_•	-	5 00
Total miles operated by the Com Gauge of track, 3 feet.	pany,	-	-	-	-	-	5 00
Number of Brid	ges and T	resties	in Mi	higar	<b>.</b> .		
Wooden bridges, number of,			e leng				30
Wooden trestles, number of,	1; ag	grega	te leng	gth, f	eet,		600
Total,	4;	-	-	-	-		630
Crossings—	Railroad	and E	Tighwa	y.			
None, What railroads cross your road e and where? None. Number of crossings of highway Number of crossings of highway which there are gates or flagm Number of crossings of highway (over, —; under, —), Number of highway bridges, 18	vs at grad ys at grad en, _ ays over _ feet abov	e in the de in or u	his States this a	ate, State	at -	in thi	s State, 3 0 None.
	Stations	<b>.</b>					
Number of stations on whole lin Same in Michigan,	1 <b>0,</b> _	-	-	-	-		2 2
	Employé	8.					
Number of persons regularly em	ployed o	n all 1	roads	pera	ted		
by Company, including official Same in Michigan,	•	-	-	-	-		9
come in mionikan,		•	-	-	-		J
Fen	cing in Mi	chigan	•.				
How many miles of fencing have	you?	-	•	-	-		4

#### REPAIRS AND RENEWALS.

#### Road Bed and Track.

Number of track sections in Michigan, Average length of sections (miles),	-		. 1
Average number of men in each section gang,	-	-	3
Number of new ties put in whole line during the	year,		. 250
Average number of new ties per mile of road,	-		50
New bridges built during the year,—number,	-	-	None.
ROLLING STOCK.			Present
Number of locomotives, all classes, exclusive of	of	Number	Estimated Value

#### 

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887,

#### KILLED.

May 29. A. S. Lince,\* engineer, Dewing's Camp, derailment; purely accidental.

#### INJURED.

May 29. D. Gillson, fireman, Dewing's Camp, derailment; purely accidental.

<sup>\*</sup> Mr. A. S. Lince was not killed outright, but died from the effects. No inquest was held.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.	Killed. Injured.			
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
Coupling cars						
Derailments		1	<b></b>		1	
Falling from trains						
Progs						
letting on and off trains			 			 
lighway crossings			ļ			
Miscellaneous						
Overhead obstructions						
Prespassers on trains		 	' 			
Freepassers on tracks						
<del></del> .						-
Total		1			1	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,					1
	-	-	-	, -	
Number of persons injured during the year,		-	-		1
Number of casualties purely accidental,	_	_	_	-	1
Number resulting from lack of caution, car	elessnes	8, 01	misc	on-	
duct,	-	_	_	_	
Persons killed or injured while intoxicated,	_	-	-	-	
Trespassers and tramps killed or injured,	-	-	-		
Suicides.	_	_	_	_	

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

— Employés,	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors		i	l
Engineers	1		1
Firemen		1	1
Laborers	 	 	
Shopmen			
Yardmen			 
Not classified above			
Total	1	1	2

STATE OF MICHIGAN, COUNTY OF KALAMAZOO,

Wm. S. Dewing, President, and James H. Dewing, of the Allegan & Lake Shore Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1886, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. S. DEWING, President. JAMES H. DEWING.

Subscribed and sworn to before me this 19th day of March, A. D. 1888.

GEORGE P. HOPKINS,

Notary Public in and for Kalamazoo Co., Mich.

#### ANNUAL REPORT

#### OF THE

# CRAWFORD & MANISTEE RIVER RAILWAY COMPANY,

For the Year ending December 31, 1887.

[Filed March 22, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ANTOINE E. CARTIER, Ludington, Mich.

Vice President, JAMES DEMPSEY, Manistee, Mich.

Secretary, WM. WENTE, Manistee, Mich.

Gen. Manager and Treasurer, LAWRENCE T. DEMPSEY, Grayling, Mich.

#### DIRECTORS.

ANTOINE E. CARTIER, Ludington, Mich.
Term expires January 1, 1889.

JAMES DEMPSEY, Manistee, Mich.
Term expires January 1, 1890.

L. T. DEMPSEY, Manistee, Mich.
Term expires January 1, 1891.

WM. WENTE, Manistee, Mich.
Term expires January 1, 1892.

ALLAN MCKEE, Manistee, Mich.
Term expires January 1, 1893.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September	er 20	3, 188	5.		
Number of stockholders at date of last election,	-	-	-	_	7
Number of stockholders in Michigan at same date,	_	-	-	_	7
Amount of full paid stock held in Michigan at same date,	_	-	-	_	\$50,000 00

Date of annual meeting of stockholders,—First Tuesday in December of each year. Fiscal year of Company ends December 31 of each year. General offices of the Company are located at Manistee, Mich.

#### GENERAL EXHIBIT.

					DEBI	T.	CREDIT	
Total income, _ Total expenses, include	ling tax	- ces, -	-	-	- - \$6,238	5 50	\$12,346	91
Balance for the ye	ear, _	-	-			-	\$6,111	41
Balance (profit and lo Balance forward to ne			r <b>,</b> -	-	9,434	1 92	3,323	51 5==
•					\$9,434	92	\$9,434	92
	ANALY	eis c	OF CA	PITAL	STOCK.			
Amount authorized by Par value of shares, No. of shares issued,		er or a		s of ass 00 00 500	ociation,	-	\$50,000	00
Amount paid in on co		, -	-	-	\$50,000	00		
Total amount pai	d in, a	per l	books	of the	Company,		50,000	00
Paid in per mile of ros miles, 10, • -	d owne	d by	Oompa -	any,—	<b>\$5,</b> 000	00		
	GENER.	AL B	ALAN	CE SHE	ET.—Dr.			
Construction account, Equipment account,		-	-	-	_ <b>\$45,</b> 566 _ 11,618		EN 10Å	NO.
Cash items: Cash, Other assets:	<b>.</b> .	-	-	-	\$3,323	51	57,184	70
Debit balance from o	ompan	ies an	d indi	ividuals	2,250	16	2,250	16
Total, 71		-	•	-		-	\$62,758	43

GENERAL	BALANCE	SHEET	-CR.
---------	---------	-------	------

	GEN	CRAI	DAL	ANCI	PODL	.E.I.,	UR.			
Capital stock, _ Unfunded debt:	-	•	-	-	-	-	-	-	<b>\$</b> 50,000 0	Ю
Dividends unpaid,									3,323 5	1
Profit and loss, or in	come	acco	unte,	-	-	-	-	-	9,434 9	
Total,	-	-	-	-	-	-	-	-	\$62,758 4	3
	ANA	LYSI	s of	DEB1	r Acc	OUNI	.18.			
			FUND	ED D	EBT.					
None.										,
		σ	NFUN	DED	D <b>EBT.</b>					
None.										
		R	BCA P	TULA	TION.					
Total unfunded debt	,	-	-	-	-	-	-	-	<b>\$3,</b> 323 5	1
Total debt liabil	ities,	-	-	-	-	-	-	-	\$3,323 5	1
Total amount of stoo	k and	debi	t,	-	:	-	_	-	<b>\$3,323 5</b>	1
Stock and debt per n	nile o	f road	d,	-	-	-	-	-	332 3	5
	COST	OF I	ROAD	AND	EQU	IPME:	NT.			

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction Average cost per mile of road	and (not	equip: inclu	ment, ding	siding	(s),—	10	\$57,184 76
miles, Proportion of cost for Michigan,	_	-		-	•	-	5,718 48 57,184 76

# CHARGES AND CREDITS DURING THE YEAR.

For new construction,	-	-	-	-	-	-	-	\$5,924 47
Total charges,	-	-	-	-	-	-	-	\$5,924 47

Net credit to property account during the year, \_ \_ 5,924 47

# ANALYSIS OF EARNINGS AND EXPENSES.

#### EARNINGS.

From freight, From other sources,		-			-	•	\$12,139 207	
Total earnings,	_	-	_	_	_	_	\$12,346	<del>9</del> 1

	<b>co.</b>
Earnings per mile of road operated,—miles, 10, _	
Earnings per train mile run from all trains earning revenue,-	
8,693 miles,	_ 1 42
Receipts other than for transportation,	207 69
Total earnings,	12,346 91
Total earnings, Total taxable earnings in Michigan,	12,346 91
Total income.	12,346 91
Total income, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proportion for Michigan, Proport	. 12,346 91
expenses.	
Per Ce	nt. Total.
	8 \$1,104 14
	8 3,640 38
Class 3. Conducting transportation, }	
Class 4. General expenses and taxes, }	4 1,490 98
Total expenses and taxes, 10	60 \$6,235 50
•	•
Operating expenses and taxes per mile of road	
operated,—miles, 10, \$623 5	5
Operating expenses and taxes per train mile run	
	1.66
Proportion of operating expenses and taxes for	
Michigan, 6,235 5	0
Per cent of expenses from earnings, 7	1.66
Net earnings per mile of road, 611 1	4
	0.33

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: October 11, 1885.

#### MAIN LINE.

<b>X</b>	iles. 10	Oths. 1	Miles, 100ths
In Michigan: From Manistee River to Forest terminus, south and east,	10	00	
Total length completed,	-	-	10 00
Aggregate length sidings, spurs, and other tracks not above enumerated,	3	<b>0</b> 0	
Aggregate length of tracks belonging to this Company, computed as single track,	- 10	-	13 00
Total miles operated by the Company, Gauge of track, 3 feet.	13	00	

Number of Bridges and Trestles in Michigan.

None.



## Crossings-Railroad and Highway.

		O T	ree trity	o—zuu	· ·	unu 11	.eyrewu	·y·				
What railroads None.	cross	your	road	at gra	de i	n this	State	, and	at v	rhat locality?		
What railroads and where?	cross	your	road	either	046	r or un	ider y	your g	rade	in this State,		
Number of cro	ssing	of h	ighw	ays at	grad	le in th	is St	ate,	-	. 3		
Stations.												
Number of sta Same in Michig		on w	hole -	line, -	-		-	-	-	2 2		
				Em	ploye	śs.						
Number of per	anna 1	e om le	arle d	mnlov	ad a	n all m	ahan	Onere:	hat	•		
by Company	inoli remos	ndina	r vegy	smbios.	bu u	n an r	vaus	obera	ieu	31		
Same in Michig		uuing	OILL	1 <b>01</b> 0,	•	-	•	-	-	31		
Dame III MIOIII	gaπ,	-	-	-	•	-	• .	-	-	<b>51</b>		
			REPA	IRS AN	D B	ENEW.	ALS.					
			R	oad Be	l and	i Track	<b>;.</b>					
Number of tra				<b>-</b>	-	-	-	-	-	1		
Average length	LOTE	ecti <b>o</b> r	18 (m	iles),	-	-	-	-	-	10		
Average number								-	-	6		
Number of ne								•	-	. 1,000		
Average numb							-	-	-	100		
New bridges by	ailt dı	ıring	the	year,—	num	ber,	-	-	-	None.		
·				ROLLIN	រក ន	тоск.						
			•			10011.		Numi	ha <b>n</b>	Present		
		_						Num	Jer.	Estimated Value.		
Number of lo	comot	1708,	all	classes,	<b>ex</b> c	lusive	of		_			
tender, _	-	-	-	•	-	-	-		1	\$4,000 00		
Total,	-	-	-	-	-	-	-		1	\$4,000 00		
Number of log			-	-	-		-		32	5,000 00		
Other cars as f Hand car,	- :0110W	B: -	-	-	-	-	-		1	15 00		
Total,	-	-	-	-	-	-	-		33	\$9,015 00		
Number of fre What kind of Hand wheel	train-								6	٠		

#### MILEAGE, TRAFFIC, ETC.

#### TRAIN MILEAGE.

Miles run by freight trains during the year,	-	-	-	8,693
Total mileage of trains earning revenue,	-	-	-	8,693

#### Passenger Traffic.

None.

	Freig	ht T	raffic.				
				Numbe Quant		Miles.	Rate.
Total tons of freight carried,	-	-	-	39,	280		
Total freight mileage, or tons	carried	l one	mile,		-	196,400	
Average ton haul for all freig Average amount received for e Average rate per ton per mile,	each to			- freigl	- n <b>t,</b>	5 \$(	31.43 01.42
Tonnage of As	rticles T	ransj	oorted	—Enti	re Road	i.	
Lumber and forest products,	-	-	-	-	-	Tons. 39,280	Per cent,
Total tons carried,	-	-	-	-	-	89,280	100.00

STATE OF MICHIGAN, COUNTY OF MANISTEE, 88.

James Dempsey, Vice President, and William Wente, Secretary of the Crawford & Manistee River Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES DEMPSEY, Vice President. WILLIAM WENTE, Secretary.

Subscribed and sworn to before me this 20th day of March, A. D. 1888.
[L. S.]

GEO. A. DUNHAM,

Notary Public.

#### ANNUAL REPORT

#### OF THE

# GRASS LAKE & MANISTEE RIVER RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed March 81, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, OTTO KITZINGER, Manistee, Mich. Vice President, PATRICK NOUD, Manistee, Mich. Secretary, M. FAY, JR., Manistee, Mich. Treasurer, B. R. BLOCKER, Manistee, Mich. General Manager, PATRICK NOUD, Manistee, Mich.

#### DIRECTORS.

OTTO KITZINGER, Manistee, Mich. Gus. KITZINGER, Manistee, Mich. S. BABCOCK, Manistee, Mich. R. R. BLOCKER, Manistee, Mich. PATRICK NOUD, Manistee, Mich. M. FAY, Jr., Manistee, Mich.

Term expires December 28, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—February 4, 1	1886	•		
Number of stockholders at date of last election,	_	-	-	7
Number of stockholders in Michigan at same date,	-	-	-	7
Amount of full paid stock held in Michigan at same date, .	-		-	<b>\$</b> 81,786 <b>88</b>
Date of annual meeting of stockholders, December 28.				
Fiscal year of Company ends December 28.				
General offices of the Company are located at Manistee, Mich.	•			

GENERAL EXHIBIT.											
Total income, _ Total expenses, incl	uding	- taxes,	- , -	-	-	- \$8	3,797	96	<b>\$</b> 8,79 <b>7</b>	96	
ANALYSIS OF CAPITAL STOCK.											
Amount authorized Par value of shares, No. of shares issued	, - , -	-		<b>\$100</b>				•	\$52,000	00	
Amount paid in on	comm	on,	-	•	-	<b>\$3</b> ]	1,736	38			
Total amount p	aid in	, as p	er boo	ks of	the	Comp	any,	•	31,736	38	
Paid in per mile of pany,—8 miles,	of road	l own	ed b	y Cor -	n- -	\$8	3,967	05			
GENERAL BALANCE SHEET—Dr.											
			· DALL	ANCE	оды	61—D	K.				
Construction account		- -	-	- -	- -	<b>\$2</b> 3	8,131 8,305		<b>\$31,73</b> 6	38	
		- -	-	- -	- -	<b>\$2</b> 3	3,131		\$31,736 \$31,736		
Equipment account	-	- -	-	-		<b>\$2</b> 3	3,131 3,305 -				
Equipment account	-	- -	-	-		<b>\$2</b> 3	3,131 3,305 -			38-	
Equipment account  Total,	-	- -	-	-		<b>\$2</b> 3	3,131 3,305 -		\$31,736	38-	

FUNDED DEBT.

None.

UNFUNDED DEBT.

None.

#### RECAPITULATION.

Total amount of stock and debt,	-	-	_	-	-	<b>\$31,736 38</b>
Stock and debt per mile of road,	-	-	-	-	-	3,967 0 <b>5</b> -

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches	Built by Company.
Total expended for construction and equipment, Average cost per mile of road,—not including sidings,	<b>\$31,736 38</b>
miles, Proportion of cost for Michigan,	3,967 05 31,736 38
CHARGES AND CREDITS DURING THE YEAR	R.
For new construction,  For new equipment, including machinery and tools,	\$1,831 38 1,205 00
Total charges,	\$3,036 38
Net credit to property account during the year,	3,036 3
ANALYSIS OF EARNINGS AND EXPENSES.	
EARNINGS.	
From freight,	. \$8,797 96
Total earnings,	\$8,797 96
Earnings per mile of road operated—miles 8, Earnings per train mile run from all trains earning revenue	
—12,800 miles, Total earnings,	. 68 <del>2</del> . 8,797 96
Total taxable earnings in Michigan,	8,797 96 8,797 96
Proportion for Michigan,	. 8,797 96
EYPENSES.	
Class 1. Maintenance of way and buildings, 40	
Class 2. Maintenance of motive power and cars, .	680 64
Class 3. Conducting transportation, 44 Class 4. General expenses and taxes, 8	,
Total, 100	\$8,797 96
Proportion of operating expenses and taxes for	3.75
Michigan, 8,797 96 Per cent of expenses from earnings, 100	i

72

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: September 3, 1886.

#### MAIN LINE.

	MAIN	LIN	E.					
In Michigan,			_		_	-	100ths.	Miles, 100ths,
•	•	-	_	-	•			
Total length completed,	-	-	-	-	-	-	-	8 00
	BRA	NCHE	3.	•				
Total length of branches owned	by C	ompa	ny,	-	•	-	_	1 50
Total length of road belong	ing t	o this	Com	pany,	-	-	-	9 50
Total miles operated by the Con-Gauge of track 3 feet.	npany	•	-	-	-	-	-	9 50
Number of Brid	iges an	ıd Tre	stles i	n Mich	igan	•		
None.								
Crossings-	-Railn	oad a	nd H	ighway	٠.			
Number of crossings of highwa Number of crossings of highwa	ys at	grade grade	in th	nis Sta this S	ite, State	at		4
which there are gates or flagn Are your frogs and guard rails b Session Laws, 1883?	ien, locked	as re	- quire	d by	Act	174,		None. Yes.
	Emp	plo <b>yés.</b>						
Number of persons regularly en by Company, including officia Same in Michigan,		od on - -	all ro	oada o - -	р <b>ег</b> а - -	ted - -		22 22
. Fen	cing i	n Micl	rigan.					
How many miles of fencing have Give the number of miles require of your track, in Michigan, needed: Sixteen miles.	d to c	omple						None.
REPAI.	rs an	D RE	NEWA	LS.				
. Roa	d Bed	and	Track	·•				
Number of track sections, Average length of sections,—mi	les,	-	-	-	-	-		1 8

Number of	1	!	.11 .1.			.:	•	Number.	Present Estimated va	lue.
Number of tender, _	- 1000mot		- m cis	<b>.880</b> 8,	- exciu	-	-	1	\$3,500	00
Total,	-	-	-	-	-	•	-	1	\$3,500	00
Logging care			-	-	-	-	-	25	5,000	00
Hand cars		•	-	-	•	-	-	1	100	00
Total,	-	-	-	-	-	-	-	26	\$8,600	00
Number of le Number of	ocomotiv	es equ	ipped	with	train	-brak	ce,	None.		
brake, - What kind of Hand bral	of train-b	-	-	-	-	-		6		

# MILEAGE, TRAFFIC, ETC.

#### TRAIN MILEAGE.

Miles run by freight trains during the year,		-	-	12,800
Total mileage of trains earning revenue,	-	-	-	12,800

#### Passenger Traffic.

None.

#### Freight Traffic.

,	Numbers (		Miles.	•		Rate.
Total tons of freight carried,	29,2	50				
Total freight mileage, or tons carried one mile,	-	_	146,2	50		
Average ton haul for all freight,	-	_		5		
Average amount received for each ton haul,	-	-	-	-	<b>\$</b> 0	30.97
Average rate per ton per mile, received for all f	reight,	-	-	-		06.87

#### Tonnage of Articles Transported—Entire Road.

Lumber and forest products,	_	-	-	-	-	00 010	100.00
Total tons carried,	_			•		23,250	100.00

STATE OF MICHIGAN, COUNTY OF MANISTEE, ss.

Patrick Noud, President, and M. Fay, Secretary, of the Grass Lake & Manistee River Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

PATRICK NOUD. M. FAY, Jr.

Subscribed and sworn to before me this 29th day of March, A. D. 1888.

[L. S.]

LOUIS E. MORRIS, Notary Public.

#### ANNUAL REPORT

#### OF THE

# HOBART & MANISTEE RIVER RAILROAD COMPANY,

For the Year ending December 31st, 1887.

[Filed March 31, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN CANFIELD, Manistee, Mich.
Secretary and Treasurer, EDWARD D. WHEELER, Manistee, Mich.
General Superintendent, HENRY W. MARSH, Hobart, Mich.

#### DIRECTORS.

JOHN CANFIELD, Manistee, Mich.
EDWARD D. WHEELER, Manistee, Mich.
HENRY W. MARSH, Manistee, Mich.
RICHARD G. PETERS, Manistee, Mich.
A. O. WHEELER, Manistee, Mich.
'Term expires July 18, 1888.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, —July 19, 1879.	
Number of stockholders at date of last election,	7
Number of stockholders in Michigan at same date,	7
Amount of full paid stock held in Michigan at same date,	<b>\$</b> 60,000 00
Date of annual meeting of stockholders,—July 18th—third Wednesday.	
Fiscal year of Company ends December 31.	
General offices of the Company are located at Manistee, Mich.	

# GENERAL EXHIBIT.

m						Dı	BIT.	CRIPDIT.	
Total income, - Total expenses, include	ing t	axes,	-	• •	-	\$32,687	52	\$29,270	27
Net deficit,	-	•	-	-	-	\$3,417	25		
Balance for the year, Balance (profit and lo Balance forward to n	ss) la	st year ar,	r, -	-	-	\$3,417 13,998		\$17,415	87
						\$17,418	87	\$17,415	87
Amount authorized b	y chai	ter or	artic	cles o	f asso	TOCK.	-	<b>\$</b> 60,000	00
Par value of shares, No. of shares issued, Amount paid in on c	-	-	- { - -		00	<b>\$</b> 60,000	00		
Total amount pa	id in	as per	book	s of	the C	ompany,		60,000	00
Paid in per mile of r —miles, 9.34,	oad ov -	vned b	<b>у</b> Со -	mpai -	ı <b>y</b> , -	<b>\$6,4</b> 9	3 00		
	•	-	-	-	•	\$6,49 ET—Dr.	3 00		
—miles, 9.34,  Construction account Equipment account,	- GENI	-	-	-	•	·	3 00	\$55,716 22,000	76 00
—miles, 9.34,  Construction account	GENI	- ERAL - -	-	-	•	·	- - -	\$55,716 22,000 23,199 17,415	00 42
—miles, 9.34,  Construction account,  Equipment account,  Other assets:  Materials and sup	GENI	- ERAL - -	-	-	•	·	- - - -	22,000 23,199	00 42 87
—miles, 9.34,  Construction account, Equipment account, Other assets: Materials and supprofit and loss,	GENI	- - - - -	BAL	- Anck - - -	SHE	·	- - -	22,000 d 23,199 17,415	00 42 87
—miles, 9.34,  Construction account Equipment account, Other assets: Materials and supprofit and loss,  Total,  Capital stock,	GENI	- - - - -	BAL	- Anck - - -	SHE	ET—Dr.		22,000 d 23,199 17,415	00 42 87  05
—miles, 9.34,  Construction account Equipment account, Other assets:  Materials and supprofit and loss,  Total,	GENI  c,  clies,  c  GENI	ERAL	BAL	- Anck - - -	SHE	ET—Dr.		22,000 23,199 17,415 \$118,332	00 42 87 05

# ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.



Total debt liabilities,

Stock and debt per mile of road,

**\$** 58,332 05

6,312 99 118,33**2** 05

12,806 49

### UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For miscellaneous		
		\$58,882 0
Total unfunded debt		\$56,332 0
	RECAPITULATION.	
Total unfunded debt.		58,332 05

# COST OF ROAD AND EQUIPMENT.

Amount of debt liabilities per mile of road [9.24 miles], Total amount of stock and debt,

# Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction an Average cost per mile of road (not				1gs), 9	$0.2\overline{4}$	<b>\$</b> 77,716	76
miles,	-		-	•	-	8,410	90
Poportion of cost for Michigan,	_	-	_	-	-	77,716	76

### ANALYSIS OF EARNINGS AND EXPENSES.

### EARNINGS.

From freight,	-	-	-	-	-	-	•	-	\$29,270	27			
Total earnings	, -	-	-	-	-	-	-	-	\$29,270	27			
Earnings per mile of road operated (miles, 9.24), Earnings per train mile run from all trains earning revenue,													
-16,000 miles,	-	_	-	-	-	_	-	-	1	82			
Total earnings,		-	_	-			-	_	29,270	27			
Total taxable earni	ngs in	Mich	nigan,		-		_	_	29,270	27			
Total income,	٠.			_		_	-	-	29,270	27			
Proportion for Mic	higan,	, -	-	-	-	•	-		29,270	27			

# EXPENSES.

	Per Cent,	Total.	
Class 1. Maintenance of way and buildings,	36	\$11,767	51
Class 2. Maintenance of motive power and cars, _	10	3,268	
Class 3. Conducting transportation,	50	16,343	
Class 4. General expenses and taxes,	4	1,307	
Total expenses and taxes,	100	\$32,687	52
Operating expenses and taxes per mile of road oper	rated,—		
miles, 9.24,		3,537	61
Operating expenses and taxes per train mile run,		-	
for trains earning revenue,—miles, 16,000,		2	04
Proportion of operating expenses and taxes for Michig	an, _	32,687	52
Per cent of expenses from earnings, 211.00	,	,	
	369 84		
Net deficit per train mile run,	0 20		
DESCRIPTION OF ROAD.			
Date when the word was anough for use between its nace	aant tarmi	ni.	

Date when the road was opened for use between its present termini: 1880.

# MAIN LINE.

In :	Michigan,	-	-	-	-	-	-	-	-	Miles, 1	00ths. 24	Miles, 1	.00ths.
	Total leng	th co	mplet	ed,	-	-	-	-	-	-	-	9	24
Ag a Ag	tal length o gregate leng bove enume gregate len	gth of erated gth of	sidin trac	gs, s ks be	purs, a	and o	ther t	racks	-	- 10	- 00		24
Tot	omputed as tal miles op age of track	erate	l by t		ompar	ıy, in	- cludin	g sid	ings,	-	-		24 24
		N	ımber	of B	ridges (	and I	restles	in M	ichiga	n.			
₩o	oden trestl	es, nu	mber	of,	_ ;	e; age	gregat	e len	gth, f	eet,			685
	Total,	-	-	-		2;	-	-	-	-			685
			Un	ossing	s-Rai	lroad	and H	ighwa	<b>y</b> .				
Nu	mber of cre	ossing	s of h	ighw	ays at	grad	e in t	his St	ate,	-			1
					S	ation	<b>8.</b>						
_	mber of sta ne in Michi		on w	hole :	line, -	-	-	-	-				<b>2</b> 2

# Employés.

Employes	•				
Number of persons regularly employed on by Company, including officials, Same in Michigan,	all 1	roads - -	opera - -	ited -	40 40
Fencing in Mic	h <b>ig</b> a:	n.			
How many miles of fencing have you?	· -	- 1	•	-	None.
REPAIRS AND RE	NEW	ALS.			
Road Bed and I	[rack				
Number of track sections, Average length of sections (miles),	-	-	-	•	1 9.24
Average number of men in each section ga	ng.	-	-	-	4

# ROLLING STOCK.

							Number.	Present Estimated Va	lue.
Number of loc	comotives.	all	classes,	ex	clusive	of			
tender, _		-	- '	-	•	•	2	\$12,000	00
Total,		_	_			_	2	\$12,000	00
Number of plat	form cars.		_	_	-	_	6	1,200	00
Number of log			-	•	-	-	36	7,200	
Total,		-	_	-	-	-	42	\$8,400	00
Number of loco	motives eq	quip	ped with	ı tr	ain bra	ke,			
steam, _		-	-	_	-	-	2		
Number of frei	ght cars eq	uip	ped with	por	wer bra	kes,			
hand, .	• •	_		-	-	_	42		
What kind of the Hand.	rain brake	is i	n use on	yo.	ur ro <b>a</b> d	?			
Are your cars e Not yet.	quipped w	ith a	automat	ic c	ouplers	, as r	equired by	y law?	
What pattern h Cowell freigh			ed for u	se ?					

# MILEAGE, TRAFFIC ETC.

# Train Mileage.

Miles run by passenger trains during the year, estimated,	-	16,000
Total mileage of trains earning revenue.		16.000

# Freight Traffic.

m 4-3 4 4 4	Number Quant			ities.	Miles.	Rate.	
Total tons of freight carried, Total freight mileage, or tons c	arried	one	mile		,7 <del>44</del> -	656,208	
Average ton haul for all freight Average amount received for ea	ich to			-	-		<b>\$</b> 0 31.2
Average rate per ton per mile, re	ecei <b>v</b> e	d for	all f	reight	i, _		04.4
Tonnage of Artic	les Tr	ansp	orted	–Enti	re Roo	ıd.	
						Tons.	Per Cent.
Lumber and forest products,	-	-	•	-	-	93,744	100.00
Total tons carried,	-	_	-	-	-	93,744	100.00

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

# KILLED.

February 4. Forest Helms, brakeman; unseen fall from cars between stations.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
,	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions								
Coupling cars								
Derailments			i					
Falling from trains		1				 		
Frogs						 		
Getting on and off trains								
Highway crossings								
Miscellaneous								
Overhead obstructions			 					
Frespassers on trains								
Trespassers on tracks								
			·					
Total		1						

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	_	_	1
Number of persons injured during the year,	_	-	_	-	
Number of casualties purely accidental,	-	_	_	-	1
Number resulting from lack of caution, careles	sness,	or mi	scond	uct,	
Persons killed or injured while intoxicated,	_ `	-	_	_	_
Trespassers and tramps killed or injured,	-	-	_	-	
Suicides,		_	_	-	

# CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	. 1		
Conductors			
Engineers.			 
Firemen	II.	!	
Laborers		 	
Shopmen	! 		
Yardmen			
Not classified above	ļ		
Total	· 1		

STATE OF MICHIGAN, SS. COUNTY OF MANISTEE,

John Canfield, President, and Edward B. Wheeler, Secretary and Treasurer of the Hobart & Manistee River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN CANFIELD.

President.

EDWARD D. WHEELER,

Secretary and Treasurer. day of February, A. D. 1888.

Subscribed and sworn to before me this 29th day of February, A. D. 1888.

CHARLES C. YOUNG,

Notary Public.

# ANNUAL REPORT

### OF THE

# HECLA & TORCH LAKE RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 80, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALEN AGASSIZ, Boston, Mass. Secretary, H. K. COLE, Calumet, Mich. Treasurer, H. K. COLE, Calumet, Mich. General Manager, W. A. CHILDS, Calumet, Mich.

### DIRECTORS.

ALEX. AGASSIZ, Boston, Mass.

O. A. SHAW, West Roxbury, Mass.

CHANNING CLAPP, Boston, Mass.

JAMES N. WRIGHT, Calumet, Mass.

JOHN DUNCAN, Calumet, Mass.

Term expires June 20, 1888.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—1867.					
Number of stockholders at date of last election,	-	-	-	-	6
Number of stockholders in Michigan at same date, .	-	-	-	-	2
Amount of full paid stock held in Michigan at same date,	,	-	-	-	\$200 00
Date of annual meeting of stockholders,—Third Wednes	day	in J	une.		
Fiscal year of Company ends April 30.					
General offices of the Company are located at Calumet, I	Mich				



# REMARKS.

This road is operated and wholly owned by the Calumet & Hecla Mining Company, which pays any deficit that may occur for the privilege of having its ore transported free.

# GENERAL EXHIBIT.

Matal income						_	BBIT.		CREDIT \$74,160	-
Total income, - Total expenses, inclu	ding	taxes	- ,	-	-	\$74	,160	05	<b>\$74,100</b>	UĐ
	ANA	LYSIS	of (	APIT	AL SI	OCK.			•	•
Amount authorized b	_	_	_ 8	100	00	ociatio	n,	-	<b>\$</b> 150,000	00
No. of shares issued, Amount paid in on o	ommo	on,	-	1,0 -		<b>\$10</b> 0	,000	00		
Total amount pa	id in,	as pe	r boo	ks of	the C	ompai	 ny,	_	100,000	00
Paid in per mile of miles, 7.50	road	own	ed by	Com	pany,		,333	33		
	GENI	ERAL	BAL	LNCE	SHEE	T.—D	R.		•	
Construction account Equipment account,	, -	-	- , -	-	-	-	-	}	i \$436,629	13
Total,	-	-	-	-	-		-	-	<b>\$</b> 436,629	13
	GENI	CRAL	BALA	NCE	SHEE	T,—C	B.			
Capital stock, Unfunded debt:	-	-	-	-	-	-	-	-	<b>\$</b> 100,000	00
Vouchers and acco	unts,	-		-	-	-	-	-	336,629	13
Total,	-	-	-	-	-	-	-	-	\$436,629	13

# ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.

# UNFUNDED DEBT.

For What Incurred.		Is the Sa	me to be	Funded	l, or bot	▼ Liquida	ated.	Amoun	t.
For construction								\$336,65	n 10
For equipment			<b></b>	·			••••••	}	- <b>9</b> 16
For real estate									
For renewals				· · · · · · · · · · · · · · · · · · ·					••••
For miscellaneous								1	
For current balances			· · · · · · · ·	• • • • • • •	·····				
Total unfunded debt								<b>\$386,63</b>	29 18
	R	ECAP	ITULA	TION	•				
Total unfunded debt,		-	_	-	_			\$336,629	13
Total debt liabilities,	-	-	-	-		-	-	<b>\$3</b> 36,629	13
Amount of debt liabilities	s per	mile	of ros	ad (7.	50 m	iles),	-	44,883	88
Total amount of stock ar	a aa	L4						436,629	19
Stock and debt per mile of			•	-	-	-	-	58,217	
Total Cost for Construction o						Branch	es Bui	lt by Compa	ny
Total expended for constr Average cost per mile of	uctio road	n and (not	equip inclu	oment ding	t, . sidin	zs).—	7.50	<b>\$</b> 436,629	13
miles.	_	` _	-	-	- `	-	-	58,217	
Proportion of cost for Mi	chiga	n,	-	-	-		-	436,629	18
CHARGES	AND	CRE	etio	DURI	NG TI	HE YE	EAR.		
For new construction,	_	-	_	_	-	_	-	\$14,838	48
For new equipment, inclu	ıding	mac	hinery	and	tools,	, -	-	28,357	86
Total charges,	-	-	-	-	-	-	-	\$43,196	34
Net debit to property acc	ount	durin	g the	year,	, -	-	-	43,196	34
ANALY	sis o	F EA	RNING	s an	D EX	PENS	es.		
		B.A	RNIN	GS.					•
From freight,	-	-	-	-	-	-	-	<b>\$74,160</b>	08
Total earnings, .	-	-	-	-	-	-	-	<b>\$74,160</b>	05

582		[Dec.	81.						
Earnings per mile of Earnings per train mi	road ope	rated, om all	—mil	es, 7.	50, ling re	- e <b>ve</b> nue,	-	<b>\$</b> 9,888	00
42,155 miles,		-	_	_	-	٠. `	-	1	76
Total earnings,		_		_	-	-	_	74.160	05
Total taxable earning	s in Mich	nigan,	_	_	-	_	_	74,160	05
		_	_	-	_		_	74,160	05
Proportion for Michi	gan, -	-	-	-	-	•	-	74,160	05
		B	XPEN	SES.					
						Per (	ent.	Tota	1
Class 1. Maintenance	of wav	and bu	ildin	28.	_	7.	75	\$5,750	00
Class 2. Maintenance					3	13.	27	9,840	
Class 3. Conducting				_	_	76.	34	56,613	
Class 4. General expe				-	-		6 <b>4</b>	1,956	
Total expenses a	nd taxes,	-	-	-	-	100.	00	<b>\$74,</b> 160	05
Operating expenses operated,—miles, 7		s per	mile	of r	oad			. 9,888	00
Operating expenses a		nor to	- Fain 1	mila	- -	•	-	0,000	00
for trains earning			-	-	-	-	-	1	76
Proportion of operati Per cent of expenses				es for -	Mich -	_	0 <b>0</b>	74,160	05

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: October, 1888.

# MAIN LINE.

In Michigan,	-	-	-	-	-		00	Miles, 100ths.
Total length completed,	-	-	-	-	-	-	-	6 00
	BRAI	NCHES	<b>.</b>					
From Hecla to South Hecla, From Hecla to Calumet,	-	-	-	-	-	1	00 50	
Total length of branches of	wned	by Co	mpan	у,	-	-	-	1 50
Total length of road belonging	to th	is Con	npany	, -		. 7	50	
Aggregate length of sidings, speakove enumerated, _	ars, ar -	nd otb	er tra -	cks n -	ot -	-	-	1 13

<b>1887.</b> ]	HECLA & TO	RCH LAI	KE RA	ILRO.	AD O	<b>)</b> .	583
A		<b>!</b>	41:- C	1			Miles, 100ths.
	gth of tracks belo	nging to	this C	ompa	ny,		0.00
	single track,	- :	-	-	-	-	- 8 63
	erated by the Con	ap <b>any</b> ,	-	-	-	•	<sub>-</sub> 7 50
Gauge of trac	k, 4 feet 1 inch.						
	Number of Brid	lges and I	Trestles	in M	ichiga	n.	
Wooden trestle	es, number of,	5; a <sub>i</sub>	ggregi	ite l <b>e</b> n	gth, i	eet,	3,059
Total,		<u> </u>		_	_	_	3,059
,							•
•	Crossings-	-Railroad	and E	Tighwo	ıy.		
What railroad	s cross your road a	t grade i	in thi	s Stat	e, an	l at wh	at locality?
	nge R. R., at Calustossings of highway		ła in t	hie S	tata		6
	ossings of highwa					, at	
which there	are gates or flagm	en,	_	_		-	2
	ossings of highway	s over or i	ander :	railro	ad (or	ær,	· 1
-; under,	s and guard rails bl	ocked as	reoni	red by	Act 1	74.	1
Session Law			-			_	Yes.
		04 42					
		Station	8.				1
Number of sta	stions on whole lin	10, _	_	-	-		3
Same in Mich	igan,		-	-	-	-	3 '
		Employ	é <b>s.</b>				
Number of no	rsons regularly em	nloved o	n all i	enada	a <b>nar</b> a	tad	
by Company	, including officia	ipioyea o ils	цап .	. Uarus	opera	- -	50
Same in Michi	gan,	`\_	_	_	_	<b>.</b> .	50
	REPAIR	S AND R	ENEW	ALS.	•		
	Roa	d Bed and	l Track	c.			
Number of tra			-	-	-	-	1
Average lengtl	h of sections (mile	8),	-	-	-	-	7.50
Avorage numb	er of men in each	section g	gang,	•	-	-	8
Number of ne	w ties put in duri	ng the ye	38r,	-	-	-	2,000
Average numb	er of new ties per	m116 OI	road,	-	-	-	24 Name
new ortages bu	ailt during the yea	r,—num!	er:	-	-	-	None.

											_	
				I	ROLLIN	G ST	OCK.		Number.	P Estim	resent ated Va	lue.
Number of	f loc	amat	1000	ء 11ء	വിമലമാ	ATO	neivo	of				
tender,		-	-	-	-	-	-	-	9	\$9	0,000	00
Total,		-	-	-	-	-	-	-	9	89	0,000	00
Number of	of pa	ssen	ger c	ars,	-	-	-	-	1		500	00
Number of					_	_	_	_	4		1.200	00
Number of					_	_	-	_	53	1	4,500	
Number of	Pro		· Our B	, -	-	-	-	-	204		•	
				-	-	-	-	-	204	:	3,150	w
Other cars												
Timber a	and s	tone,	-	_	-			-	6		1,950	.00
Snow ple	ow.	_	_	_	_	_	_	_	1		400	00
Conduct	Ora' V	VAV (	ara.	•					2		500	00
Oundan	OIB 1	· aj 、	, u	•	-	•	-	-	~			
Total,		-	-	-	-	-	-	-	271	87	2,200	00
Miles run Total mile					g reve	nue,	-	-	: :			1 <b>5</b> 5 155
					Freigl	it Irc	ijjic.					
							an	Num ad Qus	bers intitles.	Miles.	Ra	te.
Total tons	of f	reigh	t car	rried,		-	-	728	,19 <b>4</b>			
Total freig Average to Average as Average re	on ha moun	ul fo	r all eived	freig for	ht, each to	i n hat	ıl,	-	- ·	61.455 7.50	<b>\$</b> 0 10 01	.18 .35
		Ton	nage	of A1	ticles 1	Tansı	orted-	–Ent	ire Road.			
Lumber as Grain, flor	ar, pr	ovisi	prodi	acts, other	- agricu	- ltural	- l p <b>ro</b> d	- ucts	not	Tons. 16,000	Per C	æn <b>t.</b>
include	ı abo	٧Θ,	-	-	-	-	-	-		39,987		
Coal,	-	-	_	-	-	-	_	_	_	27,398		
Ores,	-	-	-	-	-	-	-	-	_	44,809		

Total tons carried,

728,194

100.00

STATE OF MICHIGAN, SS.

H. K. Cole, Secretary and Treasurer of the Hecla & Torch Lake Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.]

H. K. COLE.

Subscribed and sworn to before me this 24th day of March, A. D. 1888.

[L. S.]

L. W. KILLMAR,

Notary Public in and for Houghton county.

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### ANNUAL REPORT

### OF THE

# LAKE COUNTY RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 30, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Have had no election of officers.

### DIRECTORS.

THOMAS R. LYON, Ludington, Mich.

JOHN B. LYON, Chicago, Ill., 12 Sherman St.

JOHN S. WOODRUFF, Ludington, Mich.

M. A. NEILAN, Ludington, Mich.

LUCIUS K. BAKER, Ludington, Mich.

Term expires September 1, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Executed July 12th, 1880; filed September 8, 1880.

Number of stockholders at date of last election (original subscribers,)

Number of stockholders in Michigan at same date,

Amount of full paid stock held in Michigan at same date,—No certificates of stock issued.

Date of annual meeting of stockholders,—September 1.

Fiscal year of Company ends December 81.

General offices of the Company are located at Ludington, Mich.

# GENERAL EXHIBIT.

m . 1 *				DEBIT.		CREDIT.
Total income, Total expenses, including	g taxes, .	-	-	<b>\$</b> 20, <b>427</b>	66	<b>\$</b> 23,447 03
Net income,		-	-		-	3,019 37
Balance for the yea	r,	-	-		-	\$3,019 37
Balance (profit and loss Balance forward to next	), last year year,	<b>r,</b> -	-	<b>\$10,600</b>	00	7,580 63
				\$10,600	00	<b>\$10,600 00</b>
A	NALYSIS (	F CAP	ITAL	STOCK.		
Amount authorized by c Par value of shares, _ No. of shares issued, _ Amount paid in on com	harter or a	rticles (	of ass	ociation,	-	<b>\$300,000 00</b>
<u>-</u>		-	- •	\$60,000		
Total amount paid	in, as per l	books of	the	Company,	-	60,000 00
Paid in per mile of r pany,—miles, 11,	oad owned	d by C	om- -	<b>\$</b> 5,454	54	•
GI	ENERAL B.	ALANC	в вне	\ ET,—Dr.		
Construction account, Equipment account, Cash items:		-	-		-	\$40,600 00 30,000 00
Bills receivable,		-	-	<b>\$</b> 500	00	500 00
Total,		-	-	-, -	-	<b>\$</b> 71,100 00
. GI	ENERAL B	ALANC	е ѕне	ET,—Cr.		
Capital stock,		-	-		-	<b>\$</b> 60,000 00
Due employés, Profit and loss, or incon	ne account	- 8,, -	-		-	500 00 10,600 00
Total,		-	_		-	<b>\$71,100 00</b>

# ANALYSIS OF DEBT ACCOUNTS.

FUNDED DEBT.

None.



# UNFUNDED DEBT.

For What Incurred.	Is th	10 sam	e to be	Funde	d, or ho	w Liqu	idated.	Amoun	ıt.
For construction									
For equipment					<b>.</b>				
For real estate	 					<b></b> .	<b></b> .		
For renewals		<b>-</b>							
For miscellaneous							· · · · · · · · · · · · · · · · · · ·		
For current balances	l .							ı	
Total unfunded debt								\$50	00 00
	RI	CAP	ITULA	TION.					
Total unfunded debt,	-	-	-	-	-	-	-	<b>\$</b> 500	00
Total debt liabilities,	_	_	_	_	-	_		\$500	00
Amount of debt liabilitie		oilo d	of mod	.a1	1 mil	00		45	45
amount of dept habilities	a ber n	ппе (	OT LOS	u,—1	.1 11111	55,	•	40	#0
Total amount of stock an			-	-	-	-	-	60,500	
Stock and debt per mile o	of road	,	-	-	-	-	-	5,500	00
	m 015 D								
COS	I OF R	CAD	AND	EQU	IPME!	NT.			
COS Total Cost for Construction	_			•			es Buil	t by Compa	ny.
Total Cost for Construction of	<i>and Eq</i>	uipme n, an	mt of	Road	and B	ranch -	-	t by Compa \$70,600	
Total Cost for Construction of	<i>and Eq</i>	uipme n, an	mt of	Road	and B	ranch -	-		00
Total Cost for Construction of Total expended for const Average cost per mile of miles,	and Equation for road	uipme n, an (not	mt of	Road	and B	ranch -	-	<b>\$</b> 70,600	00
Total Cost for Construction of Total expended for const Average cost per mile of miles,	and Equitruction froad	uipme n, an (not	ent of d equ incl -	Road lipmenuding	and B nt, sidir - -	ranch -	-11 - -	<b>\$</b> 70,600 6,418	00
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi	and Equitruction froad	uipme n, an (not	ent of d equ incl -	Road lipmenuding	and B nt, sidir - -	ranch -	-11 - -	\$70,600 6,418 70,600	00 18 00
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi CHARGES For new construction,	and Equation for road ichigan	n, an (not	ent of d equ incl - - DITS I	Road aipmenuding DURIN	and B nt, sidir - -	ranch ngs),- - - E YE	-11 - -	<b>\$</b> 70,600 6,418	00 18 00
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi CHARGES For new construction,	and Equation for road ichigan	n, an (not	ent of d equ incl - - DITS I	Road aipmenuding DURIN	and B nt, sidir - -	ranch ngs),- - - E YE	-11 - -	\$70,600 6,418 70,600 \$3,100	00 18 00 00
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi CHARGES For new construction, For new equipment, inclu Total charges, _	and Equation from the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	n, an (not - - - - - nach	mt of d equincl - DITS I	Road Lipmenuding	and B at, sidir - - GG TH Gools,	ranch ngs),- - - E YE	-11 - -	\$70,600 6,418 70,600 \$3,100 7,500	00 18 00 00 00
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi CHARGES For new construction, For new equipment, inclu Total charges,	and Equation from the count decount an (not , CRED nach	mt of d equ incl DITS I inery - g the	Road sipmending	and B nt, sidir - IG TH cools,	ranch ngs),- - - E YE - -	11 	\$70,600 6,418 70,600 \$3,100 7,500 \$10,600	00 18 00 00 00	
Total Cost for Construction of Total expended for const Average cost per mile of miles, Proportion of cost for Mi CHARGES For new construction, For new equipment, inclu Total charges, Net debit to property according	and Equation from the count decount me n, an (not - - - uring	mt of d equ incl DITS I inery - g the	Road iipmenuding	and B nt, sidir - IG TH cools,	ranch ngs),- - - E YE - -	11 	\$70,600 6,418 70,600 \$3,100 7,500 \$10,600	00 18 00 00 00	
Total Cost for Construction of Cotal expended for constant Average cost per mile of miles,  Proportion of cost for Mi  CHARGES  For new construction,  For new equipment, inclu  Total charges,  Net debit to property according	and Equation from the count decount me n, an (not - - - uring	mt of d equincl DITS I - inery - g the	Road iipmenuding	and B nt, sidir - IG TH cools,	ranch ngs),- - - E YE - -	11 	\$70,600 6,418 70,600 \$3,100 7,500 \$10,600	00 18 00 00 00 00	

1887.]	LAKE (	COUN	TY 6	RAILRO	AD	co.				589
Earnings per mile of	road oper	ated,-	<b>–11</b> :	miles,	-	-	-	85	2,131	. 55
Total earnings, _	<b>-</b> -	-	-	-	-	-	<b>-</b>	28	3,447	03
Total taxable earning	s in Michi	gan,	-	-	_		•	23	3,447	03
Total income,			_	-	-	_	_		3,447	
Proportion for Michig	an, -	-	-	-	-	-	-	23	3,447	03
		EXP	ENS	E8.						
						Per c	ent.		Tota	1.
Class 1. Maintenance	of way ar	ıd hni	ldin	re			22	<b>A</b> !	3,517	
Class 2. Maintenance	of motive	nowe	r and	i cara	-		22		3,517	
Class 3. Conducting	trangnorta	tion		_ <b>-</b>	•	37			7,754	
Class 4. General expe				-	-	-	60		5,638	
-		UMA OB		•	•				<u> </u>	
Total expenses ar	id taxes,	-	-	-	-	100	.00	<b>\$</b> 20	0,427	66
Operating expenses a operated,—miles, 1		per	mile	of ro	ad				1,857	, UB
Proportion of eperat		- Drar s	nd i	AYAR	iot	-	•	•	1,001	00
Michigan,				_		_	_	20	0,427	66
Per cent of expenses	rom earn	ings.	-	•	-	•	87			
Net earnings per mile			•	-	-	\$274		•		
Data when the week				OF RO			4.4			
Date when the road v August 20, 1880.	<b>ча</b> в орепес	lior	18e D	etween	118	ргевел	t teri	nini:		
		MAI	N LI	NE.						
							Miles.	100ths.	Miles.	100ths
In Michigan,		-	-	-	-	-	11	. 00		
Total length com	pleted,	-	•	-	-	-		-	11	00
Total length of road l Aggregate length of							-	-	11	00
computed as single						,	_	_	11	00
Total miles operated Gauge of track, 4 feet	by the Co		y,	-	•	•	-	-	11	
Number	r of Bridg	es an	d Tre	stles in	Mi	chiga <b>n</b> .				
Wooden trestles, num	ber of,	_ 2	; ag	gregate	len	gth, f	et,			650
Total,		2	- ;	-	-	-	-			650

1

# Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R., near Branch Station.

Are your frogs and guard rails blocked as required by Act No.

174, Session Laws of 1883? Yes.

# Employés.

Number of persons regularly employ	red o	n all 1	roads	opera	ted	
by Company, including officials,	-	-	-	-	-	15
Same in Michigan,	-	-	-	-	-	15

# REPAIRS AND RENEWALS.

# Road Bed and Track.

Number of track sections, :	_	-	_	1
Average length of sections (miles),	-	-	-	11
Average number of men in each section gang,	_	-	-	6
Number of new ties put in line during the year,	_	-		6,000
Average number of new ties per mile of road,	-	-		545
New rails put in track:				
Steel (fons, 56),—miles,	-	-	-	1
Total miles of track laid with new rails,	-	_	-	1

				ROLLIN	IG 8	STOCK.			Present.		
Number of	locomo	tives,	all	classes,	ex	clusive	of	Number.	Estimated As		
tender, _	-	-	-	-	-	-	-	4	<b>\$</b> 16,000	00	
Total,	-	-	-	-	-		-	4	<b>\$</b> 16,000	00	
Number of	logging	cars,	-	-	-	-	-	40	5,000	00	
Total,	-	-	-	-	-	-	-	40	\$21,000	00	

Are your cars equipped with automatic couplers as required by law?

We buy our cars of the Russell Wheel & Foundry Co., Detroit, and cars are equipped with couplers used by them.

# MILEAGE, TRAFFIC, ETC.

Train Mileage.

No report.

# Freight Traffic.

Total tons of freight carried,	-	-	Qua	bers and intities. 3,788	Miles.	Rate.
Total freight mileage, or tons carried Average ton haul for all freight, Average amount received for each ton	-	-	), _ _ _	- - -	515,794 550	<b>\$</b> 0 25
Tonnage of Articles Tr	ansp	orte	l—En	tire Roc	ıd.	
Lumber and forest products,  Total tons carried.	-	-	-		93,788	Per Cent. 100.00
Total tons carried,	-	-	-	-	93,788	100.00

STATE OF MICHIGAN, SS. COUNTY OF MASON,

John S. Woodruff and Lucius K. Baker, of the Lake County Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. B.] Signed, LUCIUS K. BAKER. JOHN S. WOODRUFF.

Subscribed and sworn to before me this 27th day of March, A. D. 1888.
[L. s.]

WILLIAM FOY,

Notary Public, Mason Co., Mich.

# ANNUAL REPORT

### OF THE

# MANISTEE & LUTHER RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed March 80, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, RICHARD G. PETERS, Eastlake.

Secretary and Treasurer, HENRY W. CAREY, Eastlake.

Gen. Manager or Superintendent, RICHARD G. PETERS, Eastlake.

Gen. Passenger and Freight Agent, HENRY W. CAREY, Eastlake.

### DIRECTORS.

RICHARD G. PETERS, Manistee. HENRY W. CAREY, Eastlake. JAMES H. PETERS, Eastlake. GEO. M. BURR, Manistee. A. J. DOVEL, Manistee.

Term expires April 5, 1888.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 26, 1886.									
Number of stockholders at date of last election,	_	_	-	7					
Number of stockholders in Michigan at same date,	_		-	7					
Amount of full paid stock held in Michigan at same date,	-	_	_	None.					
Date of annual meeting of stockholders,—First Thursday in	Apri	1.							
Fiscal year of Company ends December 31.	_								
General offices of the Company are located at Eastlake.									

# GENERAL EXHIBIT.

,				DERIT	•	CREDIT.						
Total income,	-	-	•	<b>\$45,695</b>	92	<b>\$</b> 88,869 (	6 <b>6</b>					
Net income,	-	-	-		-	\$43,173	74					
Interest on unfunded debt, Rentals of buildings, tracks, etc.	- 3.,	-		6,929 2,000								
Balance for the year,	-	-	-		-	\$34,244	<u>52</u>					
Balance (profit and loss) last yes Balance forward to next year,	ar, -	-	-	61,411	09	27,166	17					
				<b>\$</b> 61, <b>4</b> 11	09	\$61,411 (	9					
ANALYSIS OF CAPITAL STOCK.												
Amount authorized by charter of Par value of shares, No. of shares issued,	\$400,000 0	0										
Amount paid in on common,	-	4, -	•	<b>\$</b> 100,000	00							
Total amount paid in, as per books of the Company,												
Paid in per mile of road own pany,—miles, 59.25,	ed 1 -	<b>у</b> Ос	)m- -	<b>\$</b> 1,687	76							
GENERAL :	BAL	ANCE	SHE	ET,—Dr.								
Construction account, Equipment account, .	-	-	-	\$235,188 69,511		304,700 3						
Other assets: Debit balances from companie	a an	d ind	ividne	.le		8,745 4						
Total,	20 COL	u IIIu	IVICUE	-	•	\$313,445 8	_					
10001,	•	•	-	<b>.</b> -	•	<b>4010,110</b> 0						
GENERAL	BAL	ANCE	e she	ET,—Cr.								
Capital stock,	- -		-		-	\$100,000 0 152,034 7						
Account of construction, Profit and loss, or income accou	- nts,	-	-	<b>\$</b> 152,034	77	61,411 0	9					
Total,	-	•	-	- •	-	\$313,445 8	_					

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

None.

# UNFUNDED DEBT.

For what incurred.	Is t	he san	ne to be	Funde	l, or ho	w Liqui	dated.	LDOGIA	ıt.		
For construction	Paid fr	rom ea	rnings.				•	\$152,00	H 77		
For equipment				•••••							
For real estate	 										
For renewals	 					••••					
For miscellaneous		<b></b>						···-			
For current balances							•••••				
Total unfunded debt								\$152,02	4 77		
RECAPITULATION.											
Total unfunded debt,	-	-	-	-	-	•	-	\$152,034	77		
Total debt liabilities,	-	-	-	·_	-	-	-	\$152,034	77		
Amount of debt liabilitie	s per	mile	of ro	ad,—	59.25	miles	, -	2,565	98		
Total amount stock and d		-	-	-	-	_	_	252,034			
Stock and debt per mile of	of road	l,	-	-	-	-	-	4,253	75		
COS	r of i	ROAL	) AND	EQU	IP <b>M</b> E	NT.					
Total cost for Construction a	nd Equ	uipme	nt of 1	Road,	and B	ranche	s Bui	lt by Compa	n <b>y</b> .		
Total expended for constr Average cost per mile of	ruction of roa	and d (n	equip	ment cludi	, - ig si	dings)	<u>-</u>	<b>\$</b> 30 <b>4</b> ,700	<b>3</b> 8		
59.25 miles,	-	_	-	-	-	•	-	7, 186			
Proportion of cost for Mi	chigar	1,	-	-	-	-	-	304,700	38		
CHARGES	AND (	CREI	o <b>its</b> d	URIN	G TE	Е УЕ	AR.				
For new construction.	_	_	_	_	_	_	_	\$96,026	18		
Fer new equipment, inclu	ıding 1	mach	inery	and t	ools,	-		12,430			
Total charges,	-	-	-	-	-	-	-	\$108,456	90		
Net debt to property acco	unt,	-		-	-	-	-	108,456	90		

# ANALYSIS OF EARNINGS AND EXPENSES.

### EARNINGS.

From passengers, From freight,	<u>.</u>		-	-	-	-	-	- -	\$271 88,598	
Total earnings,	-	-	-	-	-	-	-	-	<b>\$</b> 88,869	66
Earnings per mile of	road	l ope	rated,-	—mi	les, 59	.25,	_	-	1,499	91
Total earnings,	_	-	•	-	-	-	-	-	88,869	66
Total taxable earning	gs in	Mich	igan,	-	_	_	_	_	88,869	66
Total income,	_	_	_	_	_	_	_	_	88,869	
Proportion for Michi	igan,	-	-	-	-	-	-	-	88,869	
·			EXP	ENS:	es.		Per (	ent.	Tota	al.
Class 1. Maintenance	a of v	TAV 9	nd bui	ildin	σg.		10	.60	\$4,847	70
Class 2. Maintenance	of r	noti <del>v</del>	a now	AP 07	d care	, -		.82	10,878	
Class 3. Conducting					u care	, -		.95		
					-	-			24,656	
Class 4. General exp	епвев	and	taxes,	-	· <b>-</b>	-		.63	5,313 	26
Total expenses a	nd ta	xes,	-	-	-	-	100	.00	<b>\$45,695</b>	92
Operating expenses operated (miles, 58	9.25),	-	-	_	-	-	\$771	29		
Proportion of opera Michigan,	-	-	-	-	taxes -	- -	45,695	92		
Per cent of expenses Net earnings per mil					51	.40	728	62		
		,			-	-	•			

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: 36.50 miles June 1, 1886, and balance of road during season of 1887.

MAIN LINE.		Miles, 100ths, 1	files 100ths
In Michigan: Eastlake to South Line, section 26, 19, 12,	•	37 50	2110 <b>4.</b> 100415.
Total length completed,	-		<b>3</b> 7 50
BRANCHES.			
Township 20, R. 15, to sections 26, 21, 14,	´ -	10 00	
Total length of branches owned by Company,	-		11 75

596	MICHIGAN I	RAILRO	AD RE	TURI	<b>18.</b>		[Dec. 31.
Total length of road Aggregate length of computed as single Total miles operated Gauge of track 3 feet	tracks belong track, by the Compa	ing to	mpany, this Co - -	mpai - -	- - -	- ·	Miles, 100ths - 59 25 - 59 25 - 59 25
Nun	iber of Bridge	s and T	restles 1	n Mi	chigar	ւ.	
Wooden bridges, num Wooden trestles, num			gregate gregate				150
Total,		4;	-	-	-	-	210
	Crossings—R	ailroad	and Hi	ghwa <sub>l</sub>	y.		
What railroads cross F. & P. Marquette G. R. & I. R. R., a	R. R., at lot I t sections 15,	l, section 19, 12.	ons 7, 2	0, 16	•		at locality?
Are your frogs and gu Session Laws 1883		ked as	require -	d by	Act 1	74, -	Yes.
		Stations	ı <b>.</b>				
Number of stations of Same in Michigan,	n whole line,	-	-	-	-	-	10 10
	i	Employe	is.				
Number of persons re by Company, include Same in Michigan,	ling officials,	-	-	ads o	perat	ed - -	60 60
		ig in Mi	chigan.				
How many miles of fe Give the number of sides of your track, needed: None required.	miles require	ed to c	omplet e coun	e fen ties i	ce bo n whi	oth ich	None.
	REPAIRS	AND R	ENEWA	Ls.			
	Road 1	Bed and	Track				
Number of track secti Average length of sec Average number of m Number of new ties p Average number of ne New rails put in track Steel [tons, 2,793.48]	tions (miles), en in each se ut in line du ow ties per m	ction garing the	year,	-	-	-	5 10 4 44,425 2,700 2,024 5.75

None.

# Bridges and Culverts.

New bridges built during the year,—number,	_	
--------------------------------------------	---	--

### ROLLING STOCK.

NT 14 1.	4	•	- 11	.1				Number.	Present Estimated Value.			
Number of lottender,	comou	1 V 08, -	<b>a</b> 11	C188868,	- -	-	-	5	<b>\$</b> 23,576	14		
Total,	- '		-	-	-	<b>.</b>	-	. 5	\$23,576	14		
Number of pa				-	_	_		_ 1	2,000	00		
Number of bo	x freig	ght c	ars.	-	_	-	_	` 3	1,200	00		
Number of pl	atform	care	3,	-	-	-	_	18	3,420	00		
Number of log Other cars as	gging (	ars,		-	-	-	-	205	36,315	72		
Boarding ca		-	-		-	-	-	6	3,000	00		
Total,	-	-	_	-	_		_	233	\$69,511	86		

Number of locomotives equipped with train-brake? 5 steam brakes on locomotives and tenders.

Number of freight cars equipped with power brake? Common ratchet brake.

What kind of train-brake is in use on your road? Common ratchet brake.

Are your cars equipped with automatic couplers as required by law? Regular logging car coupling.

# MILEAGE, TRAFFIC, ETC.

# Passenger Traffic.

Total number of passengers carried,	Number and Quanti	ties. Miles.	Rate.
Total passenger mileage, or passengers carried one mile.  Average distance traveled by each passenger,  Average amount received from each passenger,  Average rate of fare per mile for all passenger	 	9,050 25 	
Freight Traffic.			
Total tons of freight carried,  Total freight mileage, or tons carried one mile Average ton haul for all freight,  Average amount received for each ton haul,	118,568 , 	3,556,890 30 	

# Tonnage of Articles Transported.—Entire Road.

Lumber and forest producte Grain, flour, provisions, oth	8 <b>,</b>	- soric	nltnr:	al nroc	- Incts	- not	Tons. 117,907	Per Cent, 99 45
		_		- -		-	656	0.55
Total tons carried,	-		. <b>-</b>	-	-	-	118,563	100.00

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Telephone line, owned by road, 30½ miles.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

### KILLED.

June 22. Geo. Hall, brakeman, Baldwin Crossing, fell off car and wheels went over him; his carelessness.

July 7. H. S. Udell, surveyor, Sands Switch, fell off car and logs went over him; his carelessness.

August 7. J. J. Lawrence, Clement Junction; tried to jump on train moving twelve miles an hour.

# TABULAR STATEMENT OF ACCIDENTS.

	Kîlled.						
Causes of Accident.	Passengers,	Employés.	Others.	Passengers.	Empl∘yés.	Others.	
Collisions					,		
Coupling cars							
Derailments		1		1	1	L	
Falling from trains	1	i			,	1	
Frogs					,		
Getting on and off trains	1				'	ļ	
Highway crossings	{ 1			<b></b>			
Miscellaneous							
Overhead obstructions							
Trespassers on trains			2				
Trespassers on tracks	1	 					
Total		1	2				

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	3
Number of persons injured during the year,	
Number of casualties purely accidental,	
Number resulting from lack of caution, carelessness, or mis-	
conduct,	1
Persons killed or injured while intoxicated,	
Trespassers and tramps killed or injured,	2
Suicides.	

# CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

Employes.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	1		1
Conductors			
Engineers			
Firemen		! 	
Laborers			
Shopmen		 	
Yardmen			
Not classified above			 
Total	1		1

STATE OF MICHIGAN, COUNTY OF MANISTEE, 8s.

Richard G. Peters, President, and Henry W. Carey, Secretary, of the Manistee & Luther Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. B.]

Signed,

RICHARD G. PETERS. HENRY W. CAREY.

Subscribed and sworn to before me this 28th day of March, A. D. 1888.

[L. 8.]

LOUIS J. SIMON,

Notary Public.

# ANNUAL REPORT

OF THE

# MECOSTA RAILWAY COMPANY,

For the Year ending December 31, 1887.\*

[Filed March 80, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN McNAUGHTON, Big Rapids, Mich.
Secretary, DOUGALL W. McNAUGHTON, Big Rapids, Mich.
Treasurer, WM. McNAUGHTON, Big Rapids, Mich.
General Manager, JOHN McNAUGHTON, Big Rapids, Mich.

### DIRECTORS.

JOHN MONAUGHTON, Big Rapids, Mich.
DOUGALL W. MONAUGHTON, Big Rapids, Mich.
WM. MCNAUGHTON, Big Rapids, Mich.
LEANDER C. LINCOLN, Big Rapids, Mich.
GEORGE H. LINCOLN, Big Rapids, Mich.
FRED. W. JOSLYN, Big Rapids, Mich.
JOHN FENNING, Big Rapids, Mich.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October 26	3, 188	2.				
Number of stockholders at date of last election,	-	-	-	-		7
Number of stockholders in Michigan at same date,	-	-	-	-		
Amount of full paid stock held in Michigan at same date,	-	-	-	-	\$50,000	00
Date of annual meeting of stockholders, September 1.						
Fiscal year of Company ends December 31.						
General offices of the Company are located at Big Rapids.	Mich	۱.				

# GENERAL EXHIBIT.

Motal income				Dmbit	•	CREDIT.
Total income, Total expenses, including tax	- 108, _	-	-	\$11,931	36	\$8,869 82
Net deficit,	-	-	-	\$3,061	54	
Interest on funded debt,	-	-	-	1,752	10	
Balance for the year,		-	-	\$4,813	64	
Balance (profit and loss), las Balance forward to next year	t year, r, _	<del>-</del> .	-		-	1,117 23 3,696 31
,				<b>\$4,</b> 813	64	<b>\$4,813</b> 64
				STOCK.		
Amount authorized by charter Par value of shares,	er or a:	rticles \$10	of as 0 00	sociation,		\$100,000 00
Par value of shares,	, -	-	-	<b>\$50,000</b>	00	•
Total amount paid in as	per bo	oks of	the (	ompany,	_	50,000 00
Paid in per mile of road pany,—10 miles,	owned -	. by (	Oom- -	<b>\$5</b> ,000	00	
GENER	AL BA	LANC	E SHE	ET,—Dr.		
Construction account, Equipment account, Cother assets:	-	-	-		-	\$52,160 22 15,319 83
Materials and supplies, - Profit and loss, - • -	-	-	-		-	555 52 696 31
Total,	-	-	<b>-</b> .		-	<b>\$71,731</b> 88
GENE	RAL B	ALAN	CE SI	HEET,—Cr.		
Capital stock,	-	-	-	· ·	•	<b>\$</b> 50,000 00 21,000 00
Vouchers and accounts,	-	-	-		•	731 88
Total, 76	-	-	•		-	\$71,731 88

# MICHIGAN RAILROAD RETURNS

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
84 bonds, \$1,000 each, dated Sept. 18, 1886	6 per cent	Sept. 18, '89	Milwaukee, Wis	\$21,000 OO+
Total funded debt				<b>\$21,000 00-</b>

### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For renewals		
For current balances		 
Total unfunded debt	•••••••••••••••••••••••••••••••••••••••	\$731 88

# RECAPITULATION.

Tetal funded debt, - Total unfunded debt,	-	-	-	-	-		-	\$21,000 731	
Total debt liabilities,	-	-	-	-	-	-	-	\$21,731	88
Amount of debt liabilities	per r	nile c	of roa	d,—1	0 mile	8,	-	2,173	18
Total amount of stock and Stock and debt per mile of			-	-	-	-	- -	71,731 7,173	

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction: Average cost per mile of road							\$67,480	05
miles.	_ `	-	-	-	-	-	6,748 67,480	

# CHARGES AND CREDITS DURING THE YEAR,

Property account credited during the year as follows (specify) Five miles of road torn up—charged profit and loss,	):	<b>\$</b> 13,476 84
Wear and tear on equipment—charged profit and loss,		3,696 43
Net credit to property account during the year.		\$17,173 27

# ANALYSIS OF EARNINGS AND EXPENSES.

# EARNINGS.

From freight,	-	-	-		-	-	-	<b>\$</b> 8,869	8\$
Total earnings,	-	-	-	-	-	-	-	\$8,869	82
Earnings per mile of road Earnings per train mile re							- 1ue,	1,043	<b>51</b>
-25,000 miles,	_	-	-	-	•	-	-		35.48
Total earnings,	-	-	_	-	-	-	_	8,869	82
Total taxable earnings for	· Mic	higan,	_	-	-	-	-	8,869	82
Total income,	_	_	_	-	-	_	_	8,869	82
Proportion for Michigan,	-	, <b>-</b>	-	-	-	-	-	8,869	

# EXPENSES.

		Per Cent.	Total.
Class 1. Maintenance of way and buildings,	_	15 77	<b>\$1,878 00</b>
Class 2. Maintenance of motive power and cars,	_	11 15	1,331 69
Class 3. Conducting transportation,	-	71 18	8,494 27
Class 4. General expenses and taxes.	-	1 90	227 40
Total amongs and towar		100.00	\$11,931 36
Total expenses and taxes,	•	100.00	<b>411,931 90</b>
Operating expenses and taxes per mile of ros	he		•
		<b>\$</b> 1,193 <b>14</b>	
Operating expenses and taxes per train mile ru		·-,	

# for trains earning revenue,—miles, 25,000, 47.60 Proportion of operating expenses and taxes for Michigan, 1,1,931 36 Per cent of expenses from earnings, 1,34 Net deficit per mile of road, 1,1,931 36 Net deficit per train mile run, 1,1,931 36

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
Main line, February, 1883.
Main line and the Austin Branch, September 8, 1886.

# MAIN LINE.

n.	WIN TI	M.F.					
					Miles. 100	ths. Miles. 100ths	L.
In Michigan:  Muskegon River at Byers to sec ship, Mecosta county, Mich.,	tion 3, -	Austi	n tov -	vn- -	4 (	00	
Total length completed,	-	-	-	-	-	_ 4 00	
В	RANCH	<b>E</b> 8.					
•							
Austin branch and spurs from sec ship, to section 14, Austin towns		, Austi -			6 (	00	
Total length of branches and	spurs o	wned b	у Сол	mpan	у,	_ 6 00	
Total length of road belonging to	thia Co	mnant	,			. 10 00	
Aggregate length of tracks belong	ring to	this C	', om na	- n⊽. c	omnute		
as single track,	Sing w	<b>9111B</b> O	ompa	<b>11</b> , 0	отрин	10 00	
Total miles operated by the Comp Gauge of track, 3 feet.	any,	-	•	-	-	_ 6 50	
Crossings— $R$	ailroad	and H	ighwa;	y.			
What railroads cross your road at a	grade i	n this	State,	and	at wha	t locality?	
What railroads cross your road eith and where?	1er ove	ror un	der y	our g	rade in	this State,	,
Grand Rapids & Indiana R. R.,	at Byer	s Stati	on, M	Tecos	a Co.,	Mich.	
Number of crossings of highways	at grad	le in t	his S	tate,	_	5	j
Are your frogs and guard rails bloc	eked as	require	d by.	Act 1	74,		
Session Laws of 1883?	-	-	-	-	-	Y es.	ı
	Station	8.					
37 1 4 4 4 1 1 1 1 1 1							
Number of stations on whole line,	-	-	-	-	-	2	
Same in Michigan,	-	-	-	-	-	2	j
	Employé	is.					
Number of persons regularly empl	n havo	all ro	ega v	narat	ha		
by Company, including officials,	oyou o	- 441 10	- WAD U	Poras.	_	10	,
Same in Michigan,	-	-	-	-	-	10	
Fencin	g in Mi	chiaan					
200000	, <u></u>						
How many miles of fencing have y	70u ?	-	-	-	-	None.	

# REPAIRS AND RENEWALS.

# Road Bed and Track.

Number of track sections	-	•	-	•	1
Average length of sections (miles),	-	-	-		6 <del>≩</del>
Average number of men in each section gang,	-	-	-		4
Number of new ties put in line during the year,	,	-	•	-	2,500
Average number of new ties per mile of road,	-	•	-		250
New rails put in track,  Total miles of track laid with new rails,	-	-	-	•	None. None.
Torsi miles of plack isid with new 18118,	-	-	-	-	TAOD6.

# ROLLING STOCK.

								Numb	er.	Present Estimated Value.
Number of tender, -	locomo -	tives, -	all	classes,	ex -	clusive -	o <b>f</b> -		2	<b>\$4,375</b> 00
Total,	-	-	-	-	-	-	<b>-</b> .	•	2	\$4,375 00
Number of				-	-	-	-	-	1	66 00
Number of l Other cars a	s follow	78:		-	•	-	-	3	1	2,893 00
2 hand ca	rs and 2	lorri	es,	-	•	-	-		4	100 00
Total,	-	-	-	-	<i>:</i>	-	-	3	6	<b>\$7,434</b> 00
Number of 1								-	-	None.
Number of								-	-	None.
What kind of Russell W				n use on	yo	ur road				
Trussell M						1				1. 9

Are your cars equipped with automatic couplers as required by law? No.

# MILEAGE, TRAFFIC, ETC.

# TRAIN MILEAGE.

Miles run by freight trains during the year,	-	-	-	25,000
Total mileage of trains earning revenue,	•	-	-	25,000

# Passenger Traffic.

None.

# Freight Traffic.

	Numbers and Quantities.	Miles.	Rate.
Total tons of freight carried,	77,611		
Total freight mileage, or tons carried one mile,		504,471	
Average ton haul for all freight,		6.	5
Average amount received for each ton haul,			<b>\$</b> 0 11.43
Average rate per ton per mile, received for all f	reight, _		01.75
Tonnage of Articles Transported	-Entire Ro	ad.	
		Tons.	Per Cent.
Lumber and forest products,		77,611	100.00
Total tons carried,		77,611	100.00

STATE OF MICHIGAN, SS. COUNTY OF MECOSTA,

John McNaughton, President and Director, and Dougall W. McNaughton, Secretary and Director. of the Mecosta Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JOHN McNAUGHTON. D. W. McNAUGHTON.

Subscribed and sworn to before me this 15th day of March, A. D. 1888. FREDERICK E. NEAHR,
Notary Public, Mecosta Co.

# ANNUAD REPORT

### OF THE

# BUCKLEY & DOUGLAS RAILROAD COMPANY

For the Year ending December 31, 1887.

[Filed May 18, 1888.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, EDWARD BUCKLEY, Manistee, Mich.
Secretary and Treasurer, CHAS. G. WILSON, Manistee, Mich.
General Manager, EDWARD BUCKLEY, Manistee, Mich.

# DIRECTORS.

CHAS. G. WILSON, Manistee, Mich.

Term expires January 1, 1890.

WM. DOUGLAS, Manistee, Mich.

Term expires January 1, 1891.

EDWARD BUCKLEY, Manistee, Mich.

Term expires January 1, 1892.

WM. J. LAW, Manistee, Mich.

Term expires January 1, 1893.

ALBERT WILSON, Manistee, Mich.

Term expires January 1, 1889.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Septem	ber	6, 18	881.		
Number of stockholders at date of last election,	-	-	-	-	7
Number of stockholders in Michigan at same date,	-	-		-	7
Amount of full paid stock held in Michigan at same date	э,	-	-	-	<b>\$</b> 18,100 00
Date of annual meeting of stockholders,—January 1.					
Fiscal year of Company ends January 1.					
•General offices of the Company are located at Manistee,	Mic	h.			

# GENERAL EXHIBIT.

		Gi	in ek	AL E	THIRL	ľ.		4	
						DEBI	r.	CREDI	78.
Total income, Total expense	s, includ	ing taxe	- 98, _	<u>-</u>	<u>-</u> -	\$16,317	74	<b>\$17,978</b>	33
Net incon	10, -	-	-	-	-		-	\$1,660	59
Interest on fur Interest on un			-	-	-	4,000 5,563			
Balance f	or the yea	ar, _	-	-	-	\$7,903	22	-	
Balance last y Balance forwa	ear, . rd to ne	- kt year,	-	-	-	53,352 		61,255	94
			•			\$61,255		\$61,255	94
Amount author Par value of sline Number of sline Amount paid in Total amount paid in the Number of sline Amount paid in the Number of sline Amount paid in the Number of sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in the Number of Sline Amount paid in t	nares, lares issuin on con	ed, - nmon,	- -	<b>\$</b> 100	00 131 -	\$500 Company,	<del></del>	\$40,000 500	00-
Paid in per n pany,—Mile	nile of :	road ov	rned -	by Co	om- -	<b>\$</b> 62	50		
	G	ENERA]	L BAI	LANCE	SHE	ET,—Dr.	•		
Construction a Equipment ac			-	<u>-</u>	-	\$27,274 14,174		<b>*4</b> 1,449	904
Cash items:								441,449	20
Cash, _ Other assets:		-	-	-	-	-	-	500	00
Loss and ga	in, .	-	-	-	-		-	61,255	94
Total,		-	-	-	-		-	\$103,205	14
	G	ENERAI	L BAI	ANCE	SHE	ET,—Cr.			
Capital stock,		-	-	-			-	<b>\$</b> 500	
Funded debt, Unfunded debt	 ::	•	-	-	-	• •	-	40,000	w
Vouchers and		-	-	-	•		•	62,705	14
Total,		-	-	-	-		-	\$103,205	14

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
*Note dated September 10, 1881	10 per cent	Jan. 1, 1882	Manistee, Mich.	\$6,606 66
Note dated September 10, 1881	10 per cent	July 1, 1882	Manistee, Mich.	6,666 67
Note dated September 10, 1881	10 per cent	Jau, 1, 1888	Manistee, Mich.	6,686 66
Note dated September 10, 1881	10 per cent	July 1, 1888	Manistee, Mich.	6,666 67
Note dated September 10, 1881	10 per cent	Jan. 1, 1884	Manistee, Mich.	6,666 67
Note dated September 10, 1881	10 per cent	July 1, 1884	Manistee, Mich,	6,666 67
Total funded debt			<u>'</u>	\$40,000 00

<sup>\*</sup>The above notes are collateral to and secured by mortgage dated September 10, 1881, interest being payable semi-annually.

#### UNFUNDED DEBT.

For what Incurred.	Is the same to be Funded, or How Liquidated.	Amount.
For construction		
For equipment		
For real estate		
For renewals		
Total unfunded debt		\$62,705 1

#### RECAPITULATION.

Total funded debt, - Total unfunded debt,	-	-	-	- -	-		-	\$40,000 62,705	00 . <b>4</b>
Total debt liabilities,	-	-	-	-	-	-	-	\$102,705	14
Amount of debt liabilities	per	mile o	f road	[8	miles],	-		12,838	14
Total amount of stock and Stock and debt per mile of			-	-	-	-		103,205 12,900	

## COST OF ROAD AND EQUIPMENT.

			COST	CF	KUAI	ANI	) EQU	TEMI	SNT.			
Total Cost	t for C	onstru	ction (	and Eq	<sub>Z</sub> uipm	ent of	Road,	and i	Branch	98 Bu	ilt by Compa	ny.
Total exp Average										<u>-</u> 8	\$103,207	52
		-			-		_		-	_	12,900	94
Proportion	on of	cost fo	or <b>M</b> i	chiga	n,	-	•	-	-	-	103,207	
		CHAI	RGES	AND	CRE	DI <b>TS</b>	DURIN	NG T	не че	AR.		
For new	consti	ructio	n,	-	-	-	_	_	-	_	\$2,770	15
For new	equip	ment,	inclu	iding	macl	hinery	and	tools,	-	-	2,815	
Tota	l char	ges,	-	-	-	-	-	-	-	-	\$5,586	07
		ANA	LYS	IS OF	EAR	NING	S ANI	EX	PENSE	S.		
•					BA	BNIN	GS.					
From fre	ight,	-	-	-	-	-	-	-	-	-	\$17,978 33	
Tota	l earn	ings,	-	-	-	-	-	-	-	-	\$17,978 33	
Earnings Earnings	per t	rain n	nile r	un fr	om a	ll tra	ins ca	rninį	reve	- nue	2,247 29	
(26,200						•		-	-	-		.77
Total ear Total tax	nings	, -	<b>-</b> .	<u>.</u>			-	-	-	-	17,978 33	
Total tar	rable e	arnin	gs in	Mich	igan,	-	-	-	-	-	17,978 33	
Total inc	come,			-	-	-	-	-	-	-		
Proportio	on for	Mich	igan,	-	-	•	-	-	-	-	17,978 33	
					B	PENS	E8.					
on 1	36 .				٠,				Per O		Tota	
Class 1.		tenan						-		.25	<b>\$</b> 5,753	
Olass 2.	Main	tenar	10 01	mou	ve p	ower	and ca	ars,		.43	1,373	
Class 3.	Cond	lucting	g trat	isport	auon	l, -	-	-		.24	8,849	
Class 4.		ral ex	-			8, -	-	-		.08	<del></del>	
Tota	ıl expe	nses a	and to	3X08,	-	-	-	-	100	.00	\$16,317	74
Operating ated,—								per-	<b>\$</b> 2,039	72		
Operating for tra	g exp	enses	and	taxes	per	train	mile			77.	o s	
Proporti	on of								1001		J <del>U</del>	
Michig		-	-	•	<u>-</u>	-	- ^-		16,317	74		
Per cent					ıngs,	-	90	.76	008	E 70		
Net inco					-	-	-		207		0.4	
Net inco	те ре	r trai	n mli	e run	, -	-	-			07.	74	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: June 20th, 1881.

#### MAIN LINE.

						Miles.	100ths.Miles.	00ths.
In Michigan: From Manistee River to ter	minus n	orth,	-	-	-	8	3 00	
Total length completed,	-	-	-	-	-	-	_ 8	00
Total length of road belonging Aggregate length of sidings not above enumerated,	ng to thi , spurs,	s Con and	pany, other	trac	- ks	-		00
not above enumerated, _	-	-	-	•	-	-	- 1	50
Aggregate length of tracks be computed as single track, Total miles operated by the C	-	-	his Co -	mpan -	y, -		_ 9 0 50	50
Gauge of track, 3 feet.	ompany	,	-	-	-	2	9 90	
	Sta	tions.						
Number of stations on whole	1:			_				1
Number of stations on whole Same in Michigan,	-	-	-	- <b>.</b>	-	-		1 1
	Emp	oloyés.						
N - 1 4		<b>.</b>	-17			4.3		
Number of persons regularly by Company, including office	omproye	a on	an ro	BUS O	рега	tea		30
Same in Michigan,	-	-	-	-	-	-		30
	ROLLIN	G ST	OCK.				Decem	
					Nun	ber.	Preser Estimated	alue
Number of locomotives, all tender,	classes,	exclu	18i <b>v</b> e -	of -		2	<b>\$</b> 6,10	0 00
Total,							\$6,10	0 00
10081,	-	-	-	-		N	<b>\$</b> 0,10	0 00
Number of logging cars, Other cars as follows:	-	-	•	-	-	30	3,00	00
Hand car,	-	-	-	-		1	2	5 00
Total,	-	-	-	-		31	\$3,02	5 00
Are your cars equipped wirequired by law? None purchased.	th autor	matic	coup	lers	8.6			

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#### MILEAGE, TRAFFIC, ETC.

#### TRAIN MILEAGE.

Miles run by passenger trains during the year,	-	-	-		26,200
Total mileage of trains earning revenue,	-	-	-		26,200
Freight Traffic.					
Total tons of freight carried,  Total freight mileage, or tons carried one mile, Average ton haul for all freight, Average amount received for each ton haul, Average rate per ton per mile, received for all f	60,3 - - - reight	<u>.</u>	<b>482,</b> -	8	80 29.79 03.72
Tonnage of Articles Transported.	-Entire	e Roc	ıd.		
			To	ns.	Per Cent

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

None.

STATE OF MICHIGAN, COUNTY OF MANISTEE, ss.

Lumber and forest products,

Total tons carried,

Edward Buckley, President and Director, and Chas. G. Wilson, Secretary and Director, of the Buckley & Douglas Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

EDWARD BUCKLEY, CHAS. G. WILSON.

60.355

60,355

100.00

100,00

Subscribed and sworn to before me this 15th day of May, A. D. 1888.
C. A. PALMER,

Notary Public.

#### ANNUAL REPORT

#### OF THE

## PARIS & PERE MARQUETTE RIVER RAILROAD COMPANY,

For the Year ending December 31, 1887.

[ Filed May 16, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN W. MOON, Muskegon, Mich.

Secretary, GEORGE W. CROSBY, Greenville, Mich.

Treasurer, C. JESSIE CHURCH, Greenville, Mich.

Gen. Manager or Superintendent, RICHARD BYRRON, Grand Rapids, Mich.

Gen. Pass. and Freight Agent, L. F. JUDKINS, Upper Paris, Mich.

#### DIRECTORS.

LUKE PALMER, Grand Rapids, Mich. G. W. CROSBY, Greenville, Mich. J. J. NICHOLS, Greenville, Mich. C. J. CHURCH, Greenville, Mich. J. W. Moon, Muskegon, Mich. A. V. Mann, Muskegon, Mich.

Term expires when successor is elected.

## STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Jul	y 20,	1882	•			
Number of stockholders at date of last election,	-	-	-	-	-	6
Number of stockholders in Michigan at same date,	-	_	-	-	_	6
Amount of full paid stock held in Michigan at same	date	э,	-	-	-	\$48,000 00
Date of annual meeting of stockholders,Not desig	nate	d, sub	ject	to ca	Л.	
Fiscal year of Company ends December 31.						
General offices of the Company are located at Paris	and (	Greer	ville	, Mic	h.	



#### REMARKS.

This Company was organized and built the railroad for the purpose of log hauling, lumber and freight.

The stock is owned and controlled by the stockholders mentioned, and the time of duration will depend upon the quantity of timber in the country where the road is built.

## GENERAL EXHIBIT.

					DEBIT		CREDIT	e.
Total income,	_	_	_	_	_	_	\$22,652	70
Total expenses, including taxes	وا	-	-	<b>\$</b> 1	3,845	44		
Net income,	-	-	. •	-	-	-	\$8,807	26
Balance for the year, _	٠ _	_	_	_	_	_	8,807	26
Balance last year,	_	_	_	_	_		32,603	
Items not included in above, as	fol	llows,	_	-	-	_	10,246	
Balance forward to next year,	-	_	-	5	1,657	92	•	
				\$5	1,657	92	\$51,657	92
ANALYSI	s o	F CA	PITAL	STOC	K.			
Amount authorized by charter of Par value of shares,		rticle \$10				-	\$48,000	00
Amount paid in on common,	-	-	-	₩4	8,000	00		
Total amount paid in, as p	er 1	books	of the	Com	pany,	-	48,000	00
Paid in per mile of road owned —miles, 16,	by	Com	pany,	•	3,000	00		
	-	-	-	•	,000	00		
GENERAL	BA	LAN	DE SHE	ET.—	Dr.			
Construction account,	_	_	_	_	_	_	<b>\$</b> 65,612	28
Equipment account.	_	_	_	_	_	_	33,828	
Cash items:			_	_			,	
Cash,			-	_	_		10,246	95
Other assets:							•	
Debit balances from compar	ies	and	individ	uals,	-	-	32,603	71
Total,	-		•		_		\$142,291	56

## GENERAL BALANCE SHEET,—CR.

Capital stock,	_	_	-	_	_	-	•	\$48,000	00
Unfunded debt:								-	
Interest unpaid,	-	-	-	-	_	•	- )		
Dividends unpaid,	_	-	_	-	_	_	- İ		
Notes payable,	-	_	_	_	-	_	- }	42,633	64
Vouchers and accounts,	-	_	-	_	-	-	- Ì		
Other liabilities,	_	-	_	_	-	_	- j		
Profit and loss, or income	acco		-	-	-	-	-	51,657	92
Total.	_	_	_	_	_	_	_	\$142,291	56

## ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For what Incurred.	Is the Same te be Funded, or How Liquidated.	Amount-
For construction		
For equipment		
For real estate		
	}	\$42,533 64
For miscellaneous		
For current balances		
Mada 1		<b>\$42,6</b> 38 64

## RECAPITULATION.

Total unfunded debt,	-	-	-	-	-	-	-	<b>\$42,633</b>	64
Total debt liabilities,	-	-	-	-	-	-	-	<b>\$</b> 42,633	64
Amount of debt liabilities			f roa	d [16	miles	],	-	2,664	
Total amount of stock and Stock and debt per mile of			-	-	-	-	- <u>-</u>	90,633 5,664	

## COST OF ROAD AND EQUIPMENT.

## Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction a Average cost per mile of road (				- (8),	16	\$99,440	90
miles, Proportion of cost for Michigan,	_	- -	- `	-	-	5,66 <b>4</b> 99,440	

#### CHARGES AND CREDITS DURING THE YEAR.

For new equipment,	, incl	ading	mach	inery	and t	ools,	-	-	<b>\$</b> 33 <b>25</b>
Total charges,	_	-	_	-	_	-,	_	-	\$33 25

### ANALYSIS OF EARNINGS AND EXPENSES.

#### EARNINGS.

From passengers, From freight,	-	-	-	-	•	-	•	-	\$197 22,455	
Total earnings,	-	-	-	-	-	-	-	-	\$22,652	70
Earnings per mile of Earnings per train n							- reven	- ue,	1,415	80
— miles, .	-	-	_	_	_	_	-	-	No accou	nt.
Total earnings,		_	_	_	-	_	-	_	22,652	70
Total taxable earning	gs in	Mic	higan.		_		_	_	22,652	70
Total income,	٠.	_				_	_	_	22,552	

#### EXPENSES.

	·Per Cent.	Total.
Class 1. Maintenance of way and buildings,	29.42	\$4,073 48
Class 2. Maintenance of motive power and cars,	14.82	2,051 09
Class 3. Conducting transportation,	43.92	6,080 74
Class 4. General expenses and taxes,	_ 11.84	1,640 13
Total expenses and taxes,	100.00	<b>\$13,845 44</b>
Operating expenses and taxes per mile of road miles, 16,	operated,—	865 34
Proportion of operating expenses and taxes for M	ichigan.	13,845 44
Per cent of expenses from earnings, _ 61.1  Net income per mile of road,	.2 - \$550 46	-,,010 -1

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

July 19, 1884.

78

	м	AIN LI	NE.					
In Michigan: From section 1, T. 17 l	N., R. 11	W., to	Upper	r Pai	is,	Miles, 10	Oths, Mile	s. 100ths,
Mich.,		-	-	-	-	16	00	
Total length complet	ed, _	-	-	-	-	-	1	6 00
Total length of road belo Aggregate length of trace	nging to ks belong	this Co	mpany this Co	, mpai	- 1 <b>v.</b>	-	- 1	6 00
computed as single trace. Total miles operated by to Gauge of track, 3 feet, 1	ck, he Comp		-	- ·	-	-		6 00 6 00
Number	of Bridge	s and T	restles 1	in Mi	chiga	n.		-
Wooden trestles, number	of, _	1; agg	gregate	leng	th, f	eet,	_	133
Total		1;	-	-	-	-	_	133
Cro	ossings—H	Railroad	and Hi	ghwas	<i>1</i> .		•	
G. R. & I. R. R, at Up What railroads cross your and where? None. Number of crossings of h Are your frogs and guard Session Laws, 1883?	road eit	her over	or un	is St	ate,	_		State, 12 Costly.
		Station	8.					
Number of stations on winds Same in Michigan,		- -	-	-	-	-		2 2
·		Employe	is.					
Number of persons regula	arly empl	loved or	all ro	ads	opera	ted		
by Company, including	officials,	-		-	-	•		15
Same in Michigan,		-	-	-	-	-		15
	Fenci	ng in M	ichigan	•				
How many miles of fence Give the number of mil sides of your track, in l	es requir	ed to c						6
needed,		-	-	-	-	_		14
Total miles,		-	-	-	•	-	•	20

## REPAIRS AND RENEWALS.

#### Road Bed and Track.

Number of track sections,	_	-	-	r
Average length of sections (miles),	-	-	-	16-
Average number of men in each section gang,		-	-	6-
Number of new ties put in line during the year,	-	-	-	1,800
Average number of new ties per mile of road,	-	-	-	112 <del>]</del> .
New rails put in track:				
None.				

#### ROLLING STOCK.

						•		Number.	Present Estimated Value.
Number of	locomot	i VAR	all	vjeases.	AI	relnsive	of		
tender, .	-	-	-	-	-	-	-	3	<b>\$11,000 00</b>
Total,	-	-	-	-		-	-	3	<b>\$11,000 00</b>
Number of p	latform	cars,	_	_	_	-	_	1	
Number of			_		_	_	_	2	
Number of l							_	42	
Other cars a			-	-	-	-	-	20	9,650 00-
Total,	-	-	-	-	-	-	-	65	\$20,650 00
Number of l Number of f What kind o Russell ha	reight c	ars eq brake	uip	oed with	po	wer brak	ζe,	None. None.	
Number of platform a Are your can No.	passeng and buff	er ca: er (st	ate	pattern)	,	_	-		None. y law?

## MILEAGE, TRAFFIC ETC.

#### TRAIN MILEAGE.

Miles run by freight trains during the year, estimated, .	-	32,181
Total mileage of trains earning revenue,	-	<b>32,181</b> .

## Telephone.

Number of miles of telephone on your road, and to whom does it belong? Twelve miles. Belongs to Central Station at Big Rapids, Mich.

STATE OF MICHIGAN, SS. COUNTY OF LAKE,

Richard Byrron, General Manager of the Paris & Pere Marquette River Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

RICHARD BYRRON, General Manager.

Subscribed and sworn to before me this 18th day of January, A. D. 1888.

WILSON CONE,

Justice of the Peace.

## ANNUAL REPORT

#### OF THE

## BEAR LAKE & EASTERN RAILROAD COMPANY,

For the Year ending December 31, 1887.

[Filed June 7, 1888.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and Gen. Manager, GEO. W, HOPKINS, Bear Lake, Mich. Secretary, DAVID H. HOPKINS, Bear Lake, Mich. Treasurer, ELLA HOPKINS, Bear Lake, Mich. General Freight Agent, J. W. HILLS, Bear Lake, Mich.

#### DIRECTORS.

GEO. W. HOPKINS, Bear Lake, Mich. DAVID H. HOPKINS, Bear Lake, Mich. M. J. HOPKINS, Bear Lake, Mich. E. HOPKINS, Bear Lake, Mich. M. E. COLLINS, Bear Lake, Mich. M. HOPKINS, Bear Lake, Mich. M. L. LOAR, Bear Lake, Mich.

Term expires January 1, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, —Ja	mua	ry 24	l, 188	32.		
Number of stockholders at date of last election,	_	-	-	-	-	7
Number of stockholders in Michigan at same data.						7

Amount of part paid stock held in Michigan at same date, \_\_\_\_\_\_ \$100,000 00 Date of annual meeting of stockholders,—First Monday in February.

Fiscal year of Company ends December 81.

General offices of the Company are located at Bear Lake, Manistee Co., Mich.

#### GENERAL EXHIBIT.

				DEBI	r.	CREDIT	
Total income,	-	-	- -	\$11,644	04	\$20,123	20
Net income,	-	-	-		-	\$8,479	16
Interest on funded debt, Interest on unfunded debt,	-	-	-	<b>\$</b> 1,080 375		·	
Balance applicable to divide	end <b>s</b> ,	-	-		-	\$7,023	29
Dividends declared (- per cen	t),	-	-	8,000	00		
Balance for the year,		-	-	\$976	71		
Balance last year,Balance forward to next year,	-	-	-		-	331 645	
				\$976	71	\$976	71
ANALYSI	s of	CAF	PITAL :	STOCK.		•	
Amount authorized by charter of Par value of shares,	_	\$100	00	ociation,	-	\$250,000	00
No. of shares issued,Amount paid in on common,	-	1 <sub>.</sub>	,023 -	\$102,312	00		
Total amount paid in as pe	r boo	ks of	the (	Company,	_	102,312	00
Paid in per mile of road owned —miles, 18,	by C	o <b>m</b> p	any,	<b>\$</b> 5,684	00		
GENERAI	BAI	LANC	e she	ET—Dr.			
Construction account, Equipment account,	-	-	-	\$91,034 30,215		<b>\$</b> 121,249	77

623		MIC	HIG	AN R	AILRO	AD R	ETU	RNS.		[Dec.	81.
Cash items: Cash, _ Balance to new	- accou	- nt,	-	-	-	-	-	- -	-	\$200 645	-
Total,	<u>:</u>	-	-	-	-	-	-	-	-	\$122,095	36
		GEN	VERA	L BA	LANC	E SHI	eet–	-Cr.			
Capital stock, Funded debt,	-	<u>-</u>	-	-	-	-	-	-	-	\$102,312 16,000	
Unfunded debt Interest unps	id,	-	-		_	_	_	<b>\$</b> 83	36	23,000	
Dividends un Notes payable		-	-	•	-	-		200 3,500		0 800	0.0
Total.										3,783	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT. .

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
May 80, 1888	8 per cent	June 1, 1887	Grand Rapids	\$5,000 00
May 30, 1883	8 per cent	June 1, 1888.	Grand Rapids	5,000 00
August 15, 1885	8 per cent	Sept. 1, 1890	Grand Rapids	6,000 00
Total funded debt				\$16,000 00

## UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or how Liquidated.	Amount.
For construction		
For equipment		\$3,500 0
For real estate		
For renewals		•
For miscellaneous		283 8
For current balances		
Total unfunded debt		<b>28,783</b> 8

## RECAPITULATION.

Total funded de Total unfunded	bt, debt,	-		-	-	-	-	-	\$16,000 3,783	
Total debt l	liabilities,	-		-	-	-	-	-	\$19,783	36
Amount of deb	t liabilitie	s per	r mile	of ro	ad (1	8 <b>m</b> i	les),	-	1,099	07
Total amount of Stock and debt				-	-	-	-	-	121,249 6,783	
	COST	OF.	ROAD	AND	EQU	PME	NT.			
Total Cost for Con	istruction a	nd E	quipme	ent of	Road o	ınd B	ranche	s Bui	lt by Compa	ny.
Total expended Average cost pe	for constr or mile of	uctio road	n and I (noi	equij incl	oment ading	, _ sidir	- 1g8),-	-18	\$121,249	77
miles, Proportion of co		_	•	- 		-	-	-	6,736 121,249	
C	HARGES	AND	CRED	its :	DURII	NG TI	HE YI	EAR.		
For new constru For new equipm	iction, ient, inclu	ding	_ machi	ine <b>ry</b>	and to	ools,	-	- -	\$6,283 7,658	
Total charg	ges, _	-	-	-	-	-	•	-	<b>\$13,941</b>	70
Total charge		- 1 dur	ing th	- 10 yea	- ras fo	- ollows	- (spec	- ci <b>fy</b> ) :	•	70
·	nd credited	_	-	_	_		\$ (spec \$350 2,145	00	•	
Property sold as	nd credited wheels, allowance	- build	ing sp	- ours,	-	-	\$350 2,145	00		47
Property sold as Two sets car Received for a	nd credited wheels, allowance	- build rty a	ing sp	ours, t duri	- ng the	— е уеал	\$350 2,145	00 47	2,495	47
Property sold as Two sets car Received for a	nd credited wheels, allowance n to prope	- build rty a	ing sp	ours, t duri	ng the	— е уеал	\$350 2,145	00 47	2,495	47
Property sold as Two sets car Received for a	nd credited wheels, allowance n to prope ANALYSI	- build rty a	ing sp	ours, t duri	ng the	— е уеал	\$350 2,145	00 47	2,495	47 23
Property sold as Two sets car Received for a  Net addition	nd credited wheels, allowance n to prope ANALYSI	build rty a S OF	ing sp	ours, t duri	ng the	— е уеал	\$350 2,145	00 47	2,495 \$11,446	47 23 10 10
Property sold as Two sets car Received for a  Net addition  From passenger From freight,  Total earnings per m	nd credited wheels, allowance n to prope ANALYSI s, - ings, - ile of road	build rty ad s OF l ope:	EARI  cocount	ours, t duri NINGS			\$350 2,145 	00 47 - - -  - -	\$11,446 \$11,446 \$404 19,719	10 10 20
Property sold as Two sets car Received for a  Net addition  From passenger From freight,  Total earnings per m Earnings per tree	nd credited wheels, allowance n to prope ANALYSI s, - ings, - ile of road ain mile ru	build rty ac S OF	EARI EARI	ours, t duri NINGS			\$350 2,145 	00 47 - - -  - -	\$11,446 \$11,446 \$404 19,719 \$20,123 1,112	10 10 20 28 79

m		
Total taxable earnings in Michigan,		<b>\$22,618 67</b>
Total income,		22,618 67
Proportion for Michigan,	- ,	22,618 67
expenses.		
EAPENSES.	Per Cent.	Total.
Olera 1 Maintenance of man and buildings		
Class 1. Maintenance of way and buildings,	8.69	\$1,011 37
Class 2. Maintenance of motive power and cars,	28.10	3,272 13
Olass 3. Conducting transportation,	<b>54.35</b>	6,328 87
Class 4. General expenses and taxes,	8.86	1,031 67
Total expenses and taxes,	100.00	\$11,644 04
Operating expenses and taxes per mile of road		
operated,—miles, 18,	<b>\$646</b> 89	
Operating expenses and taxes per train mile run		
for trains earning revenue,—7,195 miles,	1 61	
Proportion of operating expenses and taxes for	1 01	•
	11 W44 04	
Michigan,	11,744 04	
Per cent of expenses from earnings,	55	
Net income per mile of road,	470 95	
Net income per train mile run,	1 17	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: November 1, 1887.

## MAIN LINE.

								Miles. 1	00ths,1	diles, l	00ths
In Michigan,	• •	-	-	-	-	-	-	17	00		
Total length	comp	leted,	-	-	-		-	-	-	17	00
Total length of	branch	es owne	d by C	ompa	ıny,	-	-	-	-	1	00
Total length	of roa	d belon	ging to	o this	Comp	oany,	-	-		18	00
Aggregate lengt										10	00
computed as s Total miles oper Gauge of track,	ated by	the Co	mpan;	у,		-		-	-		00 00·
	Numb	er of Br	idges a	ind Tr	estles	in M	ichiga	n.			
Wooden bridges, Wooden trestles				; aggi							96 700
Total, -			5	- ; aggı	regate	leng	th, f	eet,			796

## Crossings-Railroad and Highway.

What railroads cross your i	road at gra	ade ir	this	Stat	e, and	at what	locality?
Number of crossings of hi Number of crossings of hi	ghways at ghways at	grad	e in th	nis Si this	ate, State.	_ .a.t	13
which there are gates or	flagmen,	-	_	-	-	-	None.
Number of crossings of (over. —: under. 1).	highways	over	or u	nder	railr	oad	1
(over, —; under, 1), Are your frogs and guard r	ails blocke	d as	requir	ed by	Act 1	L74,	•
Session Laws 1883?		-	-	-		- `	Yes.
	St	ation	3.				
Number of stations on wh	ole line						5
Same in Michigan,		-	-	-	-	-	5
	Em	iployé	8.				
mber of persons regular			n all 1	oads	opera	ted	
by Company, including	officials,	•	-	-	-	-	15
Same in Michigan,	-	-	-	-	-	-	15
	Fencing	in Mi	chigan				
How many miles of fenoin	g have you	1?	_	_	_	_	9
Give the number of miles re of your track, in Mich	equired to	comp					
needed,		-	-	-	-	-	25
Total,		_	_	_	_	_•	25
•							
_					_		
li de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	REPAIRS A	ND R	en ew.	ALS.	•		
	Road Be	d and	Traci	t.			
Number of track sections,		-	-	-	-	-	1
Average length of sections				-	-	-	17
Average number of men in	leach sect	ion g	ang,	-	-	-	4 000
Number of new ties put in				-	-	-	· 4,000 3,300
Average number of new tic New rails put in track:	as bar mire	OLF	vau,	-	-	-	0,000
Steel [tons, 62] miles,							11
Total miles of track laid w	rith new r	ails,		-	-	-	1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8

## Bridges and Culverts.

Timber culverts replaced during the year,	-	-	_	1
With timber,—number,	-	-	-	1
New bridges built during the year,—number,	-	-	-	. 1

Location.	Kind.	Material.	Month Built.	Feet in length.
Bear Creek	Wood	Wood	April	48
Total	••••••			48

## ROLLING STOCK.

								Number.	Present Estimated va	lue
Number of	locomot	ives,	all	classes,	exe	clusive	of		•	
tender, _	-	-	-	-	-	-	-	3	<b>\$</b> 9,500	00
Total,	-	-	-	-	-	-	-	3	\$9,500	00
Number of p	assen ge	r cars	<b>,</b> -	_	_	_	-	1	1,000	00
Number of	platform	cars		-	_	-	_	53	16,565	72
Number of l	ogging o	ars,	-	-	-	-	•	14	3,500	00
Total,	-	-	-	-	-	-	-	71	\$30,565	72
Number of l	ocomotiv	ves eq	uip	ped with	tra	in-bral	۲e,	1		
What kind of Hand whe	of train-l	b <b>ra</b> ke	is i	n use on	yo.	ur road	l?´			
Are your ca as required Yes.			wit]	h autom	atic	coupl	ers			
What patters Butterwor			hav	e you ad	lopt	ed for	use?			

## MILEAGE, TRAFFIC, ETC.

#### TRAIN MILEAGE.

Miles run by freight trains during the year,	-	-	7,195
Total mileage of trains earning revenue,	-	-	7,195

#### Passenger Traffic.

No report.

Freight Traffic.

No report.

Tonnage of Articles Transported—Entire Road.

No report.

#### · Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Six miles. Poles belong to B., L. & E. R. R., and wires to Western Union Telegraph Company.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### INJURED.

November 5. August Hanson, brakeman, East Division, on grade, slipped while coupling cars and fell alongside track and struck with corner of platform of car; rib broken and bruised.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Course of Academy		Killed.		Injured.				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
Collisions								
Coupling cars	.				1			
Derailments								
Falling from trains	.		 					
Frogs				 	 			
Getting on and off trains			,					
Highway crossings			· · · · · · · · · · · · · · · · · · ·			<i>:</i>		
Miscellaneous			<b></b>					
Overhead obstructions								
Trespassers on trains		 		 				
Trespassers on tracks			· · · · · · · · · · · · · · · · · · ·					
Total					1			



#### SUMMARY OF ACCIDENTS.

Number of persons killed during the year,	-	_	-	-	
Number of persons injured during the year,	, .	-		_	1
Number of casualties purely accidental,	_	-	-	-	_
Number resulting from lack of caution, ca	relessne	8 <b>8, O</b> 1	misc	on-	
duct,		_	_	_	1
Persons killed or injured while intoxicated,	, -	-	_	-	
Trespassers and tramps killed or injured,		_	_		
Suicides,	_ `	_	_	_	

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen	!	1	1
Conductors	i		
Engineers			
Firemen		 	; ,
Laborers		 	
Shopmen	1		
Yardmen			! :
Not classified above	i I		· 
Total		1	1

STATE OF MICHIGAN, COUNTY OF MANISTEE, ss.

Geo. W. Hopkins, President of the Bear Lake & Eastern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, GEO. W. HOPKINS, President. DAVID H. HOPKINS, Secretary.

Subscribed and sworn to before me this 18th day of January, A. D. 1888.
[L. S.]
V. COTCHETT,

Notary Public.

## ANNUAL REPORT

#### OF THE

## COLFAX & BIG RAPIDS RAILROAD COMPANY.

For the Year ending December 31, 1887.

[Filed June 9, 1888.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, JAMES M. DARRAH, Big Rapids. Secretary, M. E. DARRAH, Big Rapids.

#### DIRECTORS.

JAMES M. DARRAH. GEO. SELLINGER. WILSON E. DARRAH. CHAS. M. DARRAH. M. E. DARRAH.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,	•	_	-	-	-	
Number of stockholders at date of last election,		-	_	-	-	7
Number of stockholders in Michigan at same date, .		-	_		-	7
Amount of full paid stock held in Michigan at same	da	te,	-			
Date of annual meeting of stockholders,		-	_			
Fiscal year of Company ends,		-	-		-	
General offices of the Company are located at-		-	_	-	-	



## GENERAL EXHIBIT.

						DEBIT.		CREDIA	
Total income, Total expenses, including	- taxes	,	-	-	-	<b>\$</b> 7,059	38	<b>\$</b> 7,383	કુ
Net income,	-	-	-	-	-	-	-	<b>\$323</b>	95-
Interest on funded debt,	-	-	-	-		421	47		
Balance for the year,	-	-	-	•	_	<b>\$</b> 97	52		
Balance forward to next ye	ar,	-	-	-		-	-	97	52
						<b>\$</b> 97	52	897	52

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 No. of shares issued, 276	<b>\$4</b> 0,000	00-
Amount paid in on common, \$27,602 76		
Total amount paid in, as per books of the Company,	27,602	76
Paid in per mile of road owned by Company,—miles, 10, \$2,760 27		

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount Outstanding.
Twenty bonds of five hundred dollars each, a dated February 12th, 1887	6 per cent	Jan. 1, 1889	Milwaukee, Wisconsin.	\$10,000 00
Total funded debt				\$10,000 00

### UNFUNDED DEBT.

None.



## BECAPITULATION.

				•						
Total funded debt,	-	-	-	-	-	-	-	-	<b>\$</b> 10,000	00
Total debt liabi	lities,	. <u>-</u>	-	-	-	-	-	-	<b>\$10,000</b>	00
Amount of debt lial	bilitie	s per	mile	of ro	ad,—	10 mi	les,	-	1,000	00
Total amount of sto Stock and debt per				-	-	-	-	-	27,602 2,760	
	GEI	NERA	L BA	LANC	e shi	EET	D <b>r.</b>			
Construction account Equipment account Cash items:	ıt,	-	-	<u>-</u> 	-	-	-	<u> </u>	<b>\$27,</b> 302	76
Cash,	-	-	•	-	-	-	-	_	. 97	52
Total,	-	-	-	-	-	-	-	-	\$27,699	52
	GEI	NERA	J, BA	LANC	E SH	eet—	Cr.			
Capital stock, _ Funded debt, _ Profit and loss or in	- come	- accor	 ınts,	- -	- -	-	-	-	\$17,602 10,000 97	
Total,	-	-	-	-		-	-	-	\$27,699	52
Total Cost for Constru Total expended for Average cost per mi Proportion of cost for	ction of the const	and Egructic road (	quipm on and (inclu	<i>ent of</i> d equ	<i>Road</i>	ıt,	ranch -	_	\$27,602 2,760 27,602	76 27
		ANAI	YSIS	OF E	ARNI	ngs.				
		FR	BIGH:	r rae	RNING	8.				
Main line and branch Local traffic,	hes:	-	-	_	-	-	-	-	<b>\$</b> 7,383	33
Total traffic,	-	-	-	-	-	-	-	-	\$7,383	33
Total freight ea	rning	8,	-	-	-	-	-	-	\$7,383	33

682	MICHIGAN	RAILR	OAD E	ETU	RNS.		[Dec.	<b>31.</b>
Proportion for M Per mile of road,		 	-		\$7,383 738			1
Total transport	ation earning	<b>78,</b> -	-	-	-	-	<b>\$</b> 7,383	33
Transportation ear	nings per m	ile of	road,		<b>\$</b> 738	33		
Total earnings	from operatio	n of ro	ad,	:	-	-	\$7,383	33
Total earnings per r Proportion of taxal Total taxable earni	le earnings f	or Micl		-	, 738 7,383			
Michigan,			-		738	33		
Total income fr	om all source	8, _	-	-	<del>.</del>	-	\$7,383	33
Proportion of incom	ne for Michig	an, _	-	-	-	-	7,383	33
•	ANALYS	sis of 1	exp <b>e</b> n	ses.				
Maintenance of way Maintenance of moti Conducting transpor General expenses, in	ive power and rtation,	cars,	- - -	-	- - -	- - - -	7,059	38
Total operating	expenses and	l taxes,	-	-	-	-	\$7,059	38
Operating expenses Proportion of oper Michigan,	and taxes per rating expens	mile of	f road, taxes	for	<b>\$</b> 705			
Total proportio	n of expenses	for Mic	higan,	-	-	-	<b>\$7,059</b>	38
Percentage of expen	ses to earning ile of road,	<b>78,</b> -	98 -	5.6 <b>2</b> -	<b>\$</b> 32	40	•	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Big Rapids to section 3, Colfax township, March 1st, 1887.

1

•	MAIN I	LINE.					
In Michigan : From Big Rapids to section	3, Colfax	townsh	ip,	_	6 0	hs. Miles, 1006 0	hs.
Total length completed,	- <b>-</b>	-	-	-		- - 60	0
Total length of branches own Total length of branches own gan,	ed by Con ed by Cor 	npany, npany i -	n Mic -	- hi- -	4 0	- 4 00 0	0
Total length of road belonging Total length of road belonging gan,	to this Co to this Co	ompany mpany i -	n Mic	hi-	- 10 0	_ 10 00	ð
Number of Brid	ges and T	restles i	n Mici	tigan	•		
Wooden trestles, number of,	_ 3; a	ggregat	e leng	th, f	eet,	50	00
Total,	3;	-	-	-	-	50	00
. Draw	w Bridges	in Michi	gan.				
How many on your line?		-	-	-	-	Non	e.
Crossing	s—Railroa	d and Hi	ighway	' <b>.</b>			
What railroads cross your road Grand Rapids & Indiana R. Detroit, Lansing & Norther What railroads cross your road and where? None.	R., near	Big Rap near Big	ids. g Rapi	ds.			
Number of crossings of high Are your frogs and guard rails	ways at gr	ade in 1	this St	ate,	-		5
Session Laws 1883?			-	-	-	Ye	38.
•	Statio	ns.					
Number of stations on whole Same in Michigan,	line, -	-	:	-	-		2 2
	Emplo	yés.					
Number of persons regularly by Company, including offic Same in Michigan,	employed	on all 1	roads -	opera - -	ted )	No repor	rt.
80	- •	-	-	-	- /		

#### REPAIRS AND RENEWALS.

#### Road Bed and Track.

Number of track sections in Michigan,	-	-	-	1
Average length of sections (miles),	-	-	-	6
Average number of men in each section gang,	-	_	-	4
Number of new ties put in whole line during the	year,	,	-	18,000
Number of new ties put in track in Michigan,	_	-	•	3,000

#### ROLLING STOCK.

			•	· CLL	na bi	0011.		Number.	Present Estimated Value.
Number of leavelusive of			of 8	to 11 -	tons	weig -	ht,	2	<b>\$3,200 00</b>
Total,	-	-	-	-	-	-	-	2	<b>\$3,200</b> 00
Other cars as Logging ca		'8 <b>:</b> -	-	-	-	-	-	25	1,500 00
Total,	-	-	_	_	-		-	25	<b>\$4,700 00</b>

What patterns of power brakes have you in use, and number of locomotives and cars with each?

We use the Russell wheel and arm brake on our logging cars.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885?
No.

## MILEAGE, TRAFFIC, ETC.

#### TRAIN MILEAGE.

No report.

#### Tonnage of Articles Transported.—Entire Road.

						Tons.	Per Cent.
Lumber and forest products,	-	-	-	-	-	44,300	100.00
Total tons carried,	_	-	_	_	_	44,300	100.00

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1887.

#### INJURED.

September 15. Henry Richard, Mud Lake, fell from train; carelessness.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.			
Ostados of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
Collisions							
Coupling cars							
Derailments					. 1	<b>-</b>	
Falling from trains				<b></b>	·	i '	
Frogs					••••••	 	
Getting on and off trains							
Highway crossings						. <b></b>	
Miscellaneous	1 1						
Overhead obstructions							
Trespassers on trains							
Prespassers on tracks	j i						
Total	-				<u>1</u>		

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	· <u>-</u>	_
Number of persons injured during the year,	-	-	1
Number of casualties purely accidental,	-	-	
Number resulting from lack of caution, carelessness	B, 0I	mis-	
conduct,	•	-	1
Persons killed or injured while intoxicated,	-	-	
Trespassers and tramps killed or injured,	-	-	_
Suicides,	_	-	_

## CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen	1	i .	i
Brakemen		1	1
Conductors			
Engineers			
Firemen			 
Laborers			
Shopmen			
Yardmen			
Not classified above	1		t
Total			

STATE OF MICHIGAN, SS. COUNTY OF MECOSTA,

James M. Darrah, President of the Colfax & Big Rapids Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1887, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES M. DARRAH,

President.

Subscribed and sworn to before me this 31st day of May, A. D. 1888. WILSON D. OSBURN, Notary Public.

## **TABLES**

## ACCOMPANYING THE SIXTEENTH ANNUAL REPORT OF THE COMMISSIONER OF RAILROADS.

## STATE OF MICHIGAN, 1888.

- 1. GENERAL EXHIBIT.—REVENUE AND 11. TRAIN MILEAGE AND TRAFFIC. DISBURSEMENTS.
- 2. STATEMENT OF BALANCES.
- 3. CAPITAL STOCK.
- 4. INDEBTEDNESS.
- 5. Cost.
- 6. TRACK MILEAGE.
- 7. TRAFFIC EARNINGS.
- 8. Gross Income.
- 9. EXPENSES.
- 10. Analysis of Earnings and Expenses.

- 12. TONNAGE AND COMMODITIES MOVED.
- 18. EQUIPMENT.
- 14. STATIONS AND EMPLOYES.
- 15. PERMANENT WAY.
- 16 ACCIDENTS.
- 17. TAXATION.
- 18. Comparative Summary from Returns OF 1886 AND 1887.
- 19. COMPARATIVE SUMMARY OF RETURNS 1883 TO 1887 INCLUSIVE.

## 1.—GENERAL EXHIBIT—REVENUE AND DISBURSEMENTS,

_	I GENERAL BINESTE IVA. SELO	I ZND DISBO	1	137.4
Š.	,		Total Operating	Net result for
Line N	Railroads	Total Operating Revenue,	Expenses, Including Taxes.	Surplus,
1 2 3 4 5	Bay View, Little Traverse & Mackinac Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern.	\$43,275 13 250,455 64 3,478,696 20 27,140,725 24 1,414,022 69	\$50,660 62 224,187 72 2,515,384 76 16,010,266 61	\$26,267 92 968,311 44 11,120,458 63 349,398 37 37,070 55 104,988 68
6 7 8 9 10 11	Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan. Detroit, Bay City & Alpena.	1,414,022 69 h 176,681 91 458,585 12 469,296 68 1,194,309 38 1,147,159 99	224,187 72 2,515,384 76 16,010,286 61 1,064,629 82 139,611 36 348,596 44 263,886 79 863,615 92 696,114 56	349,393 37 87,070 55 104,988 68 205,429 89 330,693 46 451,045 44
12 13 14 15	Duluth, South Shore & Atlantic Flint & Pere Marquette	1,465,689 23 2,433,536 78	892,822 46 1,671,016 94	572,866 77 762,517 84
16	Saginaw & Clare county			
17 18 19 20	Flint & Pere Marquette.  Manistee Saginaw & Clare county. Saginaw & Mt. Pleasant. Grand Rapids & Indiana System Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo. Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Manistique	2,585,456 74 18,710,963 15	1,686,101 77 11,029,798 17	869,354 97 7,681,164 98
21	Detroit, Monroe & Toledo			
22 28	Kalamazoo, Allegan & Grand Rapids			
24	Kalamazoo & White Pigeon			
20 26 27 28	If Marquette Houghton & Ontonegon	47 580 11	19,781 36 46,609 93	24,371 23 920 18
19 20 1 22 22 24 25 25 27 28 28 24 25 25 27 28 28 24 25 25 27 28 28 24 24 24 24 24 24 24 24 24 24 24 24 24	Marquette & Western  Mason & Oceana. Michigan Air Line Railway. Michigan Central System. Canada Southern Bridge Detroit & Bay City. Grand River Valley. Jackson, Lansing & Saginaw Kalamazoo & South Haven. Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit. Milwaukee, Lake Shore & Western Milwaukee & Northern. Mineral Range.	28,613 21 160,393 31 14,164,490 20	21,019 94 127,062 61 9,875,246 50	7,593 27 38,380 70 4,289,243 70
33 33	Detroit & Bay City			
34	Grand River Valley			
36	Kalamazoo & South Haven			
87	Michigan Air Line R. R.			
39	Saginaw Bay & Northwestern			
40	Toledo, Canada Southern & Detroit	0.100.001.04		1 040 000 00
42	Milwaukee & Northern	8,180,681 04 976,187 99 153,781 97	1,940,857 66 685,903 88	1,240,828 38 340,234 61 97,660 76
43	Mineral Range	153,781 97	56,121 21	97,660 76
45	Mineral Range Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern	4.431 80	5,886 18	
46	Pontiac, Oxford & Port Austin	4,481 80 105,909 68	5,886 18 88,588 45	22,826 28
48	Saginaw, Tuscola & Huron.	828,061 09 81,889 94 99,784 25	218.753 57 61,112 79 76,566 17	114,307 52 20,777 15
50	Saginaw and Grand Rapids	88,784 ZD		28,218 08
46 47 48 49 50 51 52 53 54	Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw and Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo & South Haven.  §Traverse City.	488,284 75 22,426 48	342,605 87 9,518 61	140,678 88 12,907 82
54 55	Wabash Detroit, Union R. R. Depot & Station Company	1,260,929 04 171,880 85	1,038,202 83 86,967 69	222,726 71 84,918 16
	Commercial roads	\$82,228,212 13	\$52,076,404 68	\$80,160,097 32
1	Allegen & Lake Shore	es kon on	\$3,500 00	
1 2 3	Bear Lake & Eastern	\$8,500 00 20,123 20 17,978 33	11,644 04	\$8,479 16
3	Buckley & Douglas	17,978 33 7,883 38	11,644 04 16,317 74 7,059 38	1,660 59 823 95
5	Crawford & Manistee River	12,846 91	6,285 50	6,111 41
6	Grass Lake & Manistee River	8,797 96 91 478 99	6,285 50 8,797 96 62,862 22	28,616 77
7 8	Hecla & Torch Lake	91,478 <b>99</b> 74,160 05	74,160 95	
9 10	ORE AND FOREST ROADS.  Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Colfax & Big Rapids Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River Lake County Manistee & Luther Mecosta	29,270 27 28 447 03	32,687 52 20,427 66	8,019 37
11	Manistee & Luther	28,447 03 88,869 66	45,695 92	43,178 74
12 13	Mecosta Paris & Pere Marquette River	8,869 82 22,652 70	45,695 92 11,931 36 13,845 44	8,807 26
	Ore and forest roads	\$408,878 25	\$315,164 79	\$100,192 25
	Total for all roads	\$82,637,000 38	\$52,391,569 42	\$30,280,289 57

<sup>&</sup>lt;sup>a</sup> Sinking funds. <sup>b</sup> Includes am't to C. S. R'y for its proportion of net earnings. <sup>c</sup> Includes dividend on guaranteed stock. <sup>d</sup> Less \$27,836.84 received on account of interest on advances. <sup>e</sup> Bonds redeemed

#### REVENUE AND DISBURSEMENTS .- CONTINUED.

ear's Business.	Payable from Income.					
Deficit.	Interest on the Funded Debt.	Interest on the Floating Debt.	Rentals.	Dividends.	Total.	
\$7,885 49	\$177,870 00				\$177,870 00 109,500 00 963,234 16 8,783,297 21 386,008 38	
	109,500 00 738,738 40 5,230,798 21 282,258 33				109,500 00	
	738,738 40	\$28,867 71 58,000 00	\$195,638 05		963,234 16	
	5,230,793 21	. • 58,000 00		\$3,444,504 00 153,755 00	8,783,297 21	
	262,208 83			198,756 00	386,006 38	
· · · · · · · · · · · · · · · · · · ·	•	40,696 76			40 808 78	
	188 450 01	20,000 10		66 800 00	906 250 01	
• • • • • • • • • • • • • • • • • • • •	819.800 00	82,237 84	6,922 28	66,800 00 45,000 00	d 408,455 62	
	188,450 01 819,800 00 269,650 00	4,046 60		230,465 00	40,696 76 206,250 01 4 403,455 62 504,161 60	
					1	
	• 487,877 01 884,057 38				437,877 01 756,557 88	
	884,057 88			422,500 00	756,557 88	
			i			
	•••••				•••••	
	744,100 00	16,500 00	5,500 00		786,100 00	
	• 8,829,490 00	10,000 00	449,318 45	1,978,660 00	5,757,463 45	
	- 0y000,200 W		ENGIOLD BU	2,010,000 00	0,101,200 20	
				1		
	•••••			I		
	100 POC 000	454 41		i	454 41 39,793 93	
·	89,798 98				89,798 98	
		1,562 19			1,562 19	
·····	72,855 17	1,502 19			72,855 17	
	1,080,800 00		h 1,995,999 58	749,528 16	3,826,327 74	
	1,000,000 00		- 1,000,000 00	130,000 10	0,000,001 12	
		***************************************				
	#19 009 00	188 000 00	81,307 49	480,000 00	1 100 004 80	
•••••	90,100,00	• 155,000 00	20.681 57	100,000 00	1,100,004 02	
	517,687 08 200,100 00 35,544 00		20,001 01	80,000 00	1,183,994 52 220,761 57 65,544 00	
	OU-VIE OU			30,000	, 00,011 00	
904 88						
	90,000 00				90,000 00	
	130,472 00	20,582 69			151,004 69	
·	11,400 00	21,591 59			82,991 59	
	130,472 00 11,400 00 35,680 00				151,004 69 82,991 59 85,680 00	
					<b> :</b>	
·····	184,800 00				184,800 00	
	153,150 00		118,857 99		272,007 99	
	100,100 00		110,001 20		212,001 88	
\$8,289 82	\$14,618,861 42	\$379,475 29	\$2,824,200 41	\$7,551,212 16	\$25,368,749 28	
		40mm 0m				
	\$1,080 00 4,000 00	\$375 87 5,568 81			\$1,455 87	
	4,000 00 421 47	5,506 81			9,563 81 421 47	
	121 47				201 11	
	15,000 00	650 44			15,650 44	
	20,000 00				10,000 11	
\$8,417 25						
\$-1.2	***************************************					
	******	6,929 12	\$2,000 00		8,929 12 1,752 10	
. 8,061 54	1,752 10				1,752 10	
	·····					
\$6,478 79	\$22,253 57	\$13,519 24	<b>69 000 00</b>		<b>6</b> 04 440 01	
\$0'210 IB	\$00,400 J	\$10'019 %¥	\$2,000 00		\$37,772 81	

For 1% months only. Included with G. R. & I. R. R. h For 10 months only, Michigan Division.

## 2.—GENERAL EXHIBIT.—STATEMENT OF BALANCES.

è l	Railroads.	Current l	Balances, 1887.
Line No.		Debit.	Credit.
) aBa	ay View, Little Traverse & Mackinac licago & Canada Southern licago & Grand Trunk licago & Grand Trunk licago & Northwestern licago & West Michigan ncinnati, Jackson & Mackinaw ncinnati, Wabash & Michigan troit, Bay City & Alpena troit, Bay City & Alpena troit, Lansing & Northern liuth, Scuth Shore & Atlantic liuth, Scuth Shore & Atlantic lint & Pere Marquette laginaw & Western laginaw & Mt. Pleasant and Rapids & Indiana ke Shore & Michigan Southern System letroit, Hillsdale & Southwestern letroit, Hillsdale & Southwestern letroit, Hillsdale & Southwestern letroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan lintique larquette, Houghton & Ontonagon		
1 Ba 2 Ch 3 Ch	icago & Canada Southern	\$185,255 49	·
8 Ch	licago, Detroit & C. G. T. Junction	83,232 08	A07 00
4   Ch	ilcago & Urang Trunk		. \$77 22 2 397 161 45
4   Ch 5   Ch 6   Ch 7   Ci 8   De 10   De 11   De 12   De	licago & West Michigan	86,614 96	
7 Ci	ncinnati, Jackson & Mackinaw		21,963 18
8   C11	ncinnati, Wabash & Michigan	·	. 64,254 17
10 De	troit, Grand Haven & Milwaukee		74 36
ii De	troit, Lansing & Northern	53,116 16	
12   D	Saginaw & Western)	,	124 090 76
ii Fi	int & Pere Marquette	1	5.960 51
15	Manistee		· · · · · · · · · · · · · · · · · · ·
16	Saginaw & Clare County		· · · · · · · · · · · · · · · · · · ·
17 G	and Ranida & Indiana		103 254 97
14 File	ke Shore & Michigan Southern System)		1,923,701 5
20   1	Detroit, Hillsdale & Southwestern	;	
1   15	Jetroit, Monroe & Toledo		
នី រ	Salamazoo, Allegan & Grand Rapids.		
ŭ   I	Kalamazoo & White Pigeon.		
5 1	Northern Central Michigan		92 014 96
70 Ma	arquette. Houghton & Ontonagon	38.873 75	. 20,810 02
8   _1	Kalamazoo & White Pigeon Northern Central Michigan snistique requette, Houghton & Ontonagon darquette & Western son & Oceana chigan Air Line Railway chigan Central System Lanada Southern Bridge Detroit & Bay City Frand River Valley Ackson, Lansing & Saginaw Kalamazoo & South Haven dichigan Air Line Railroad dichigan Air Line Railroad dichigan, Midland & Canada saginaw Bay & Northwestern lwaukee, Lake Shore & Western lwaukee, Lake Shore & Western levance & Northern neral Range skegon, Grand Rapids & Indiana tonagon & Brule River ntiac, Oxford & Port Austin rt Huron & Northwestern ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron ginaw Tuscola & Huron		
9   Ms	Ason & Oceana	00.004.48	., 6,031 06
M	chigan Central System	88,024 47	482.915.96
į · · · č	Canada Southern Bridge.		±00,020 00
BI	Detroit & Bay City.		
1 0	Jrand Kiver Valley		
Ř	Kalamazoo & South Haven		
7 3	dichigan Air Line Railroad		
B	Michigan, Midland & Canada		· i
ว่า วั	Toledo, Canada Southern & Detroit		
Mi	lwaukee, Lake Shore & Western		106,328 8
2   M1	lwaukee & Northern		184,928 42
Mi	iskegon, Grand Rapids & Indiana		06,110 10
On	tonagon & Brule River	904 33	
8 Po	ntiac, Oxford & Port Austin	67,678 77	
Sa	zinaw Tuscola & Huron	12 214 44	
Sa	ginaw Valley & St. Louis	12,461 92	
1 -5	ginaw Tuscola & Huron ginaw Valley & St. Louis aginaw & Grand Rapids ledo, Ann Arbor & North Michigan ledo & South Haven		
To To Tra	ledo & South Haven		8,347 06 9,207 85
Tra	averse City abash		
W	abash	49,281 28	
-!	Commercial roads	\$615,349 82	\$5,435,404 84
	ORE AND POREST ROADS.	<b>V</b>	4012001202 OI
· A 11	locan & Taka Chara	l	,
All Be B Bu Co	ar Lake & Eastern	\$976 71	
Bu	ckley & Douglas	7,908 22 97 52	
l ∣ Ço	lfax & Big Rapids	97 52	
5 Cra 3   Gra	legan & Lake Shore ar Lake & Eastern. ckley & Douglas. Ifax & Big Rapids. awford & Manistee River. ass Lake & Manistee Riverncock & Calumet.		\$6,111 41
Ha	ncock & Calumet		12,986 89
He	cla & Torch Lake bart & Manistee River	8,417 25	
Ho La	bari & manistee Kiverka County	8,417 25	8,019 37
I∐Ma	ke County nistee & Luther nosta ris & Pere Marquette River		84.244 65
Me	costa	4,818 64	
3 Pa	ris & Pere Marquette Kiver		8,807 26
	Ore and forest roads.	\$17,208 34	\$65,148 99
_,	Total for all roads	\$682,558 16	\$5,500,568 88

a Road sold by foreclosure. Interest account written off.

#### TABULAR STATEMENT.

## STATEMENT OF BALANCES .- CONTINUED.

Balances forwa	arded from 1886.	Charges and than fo	credits other r traffic.	Balance forw	varded to 1888.	
Debit	Credit.	Debit.	Öredit.	Debit.	Credit.	
\$2,508,882 10			\$458 12 83,232 08	\$2,698,679 47		
			88,282 08		<b>677</b> 00	
	@14 399 043 AS	\$10,762,059 58			8 092 145 47	
	\$14,388,043 63 241,736 95	A10'100'000 00	12,047 81		977 28 6,028,145 47 217,169 80	
		21,963 13	20,011 01			
	247.872 20	21,000 10			812,126 37	
	13,239 97		6,640 12		20,059 97	
	45,458 61	45,000 00			527 99	
· · · · · · · · · · · · · · · · · · ·	247,872 20 13,239 97 45,158 61 191,650 08				812,126 87 20,059 97 527 99 141,588 87	
		00 407 08				
	62,634 93 20,352 07	66,485 67			131,189 02 26,312 58	
:	20,002 01				20,012 00	
, <b></b>						
2,441,625 48	8,033,770 98	54,023 83	5,629 09 129,999 52	2,886,764 75	10,087,472 08	
· · · · · · · · · · · · · · · · · · ·	<b></b>				]	
· · · · · · · · · · · · · · · · · · ·						
· · · · · · · · · · · · · · · · · · ·						
494 04					28,422 78	
	614,260 87	o575,387 12				
					6,031 08	
· · · · · · · · · · · · · · · · · · ·			89,024 47 53,152 09		l	
	6,501,467 88	33,306 99	53,152 09		6,984,228 94	
•••••						
	014 87		48 800 00		354 000 04	
• • • • • • • • • • • • • • • • • • • •	816,754 84	816,754 84	47,783 88		154,062 24 134,923 43 180,988 92	
	98,872 16				180 088 09	
	00,012 10			}	100,000 00	
13,610 17			\ <u></u>	14.514 50		
253,477 32				321,151 09		
183,143 99				169,841 16		
11,145 21				28,359 65		
13,610 17 253,477 32 183,148 99 11,145 21 73,059 24				14,514 50 321,151 09 169,841 16 28,359 65 85,521 16		
· <u>:</u>	47 119 00				55 461 OC	
	47,113 98 417,210 18	15,697 58			55,461 06 10,720 47	
	27,020 10	25,001 00			20,180 21	
4,909,184 96			44,909,184 96	49,281 28		
\$10,844,572 51	\$30,843,484 28	\$11,890,628 19	\$5,287,051 64	\$5,744,113 08	\$24,459,458 80	
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	\$381 12		}	<b>\$</b> 645 59		
\$58,852 72				9645 59 61,255 94 97 52		
	3,828 51			97 52	\$9,434 92	
	9,020 01				₩,404 ¥2	
	17,698 02				80,664 85	
	21,000 00				30,002 00	
13,998 62				17,415 87	••••••	
,	7,580 63				10,600 00	
	27,166 47				61,411 09	
	7,580 63 27,166 47 1,117 23 82,608 71			8,696 41		
			\$10,246 95	400 111 00	51,657 92	
<b>\$67,351</b> 84	\$89,820 69 \$30,933,254 97	\$11,890,628 19	\$10,246 95 \$5,297,298 59	\$88,111 88 \$5,827,224 89	\$163,768 28 \$24,623,221 58	
\$10,411,923 85						

Carried to D. S. S. & A. account, d Includes Paw Paw for 1886.

## 3.-CAPITAL STOCK.

Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago &	Line No.	Railroads.	Amount Authorized.	Par Value of Shares.	Number of Shares Issued.
Chicago & France   Chicago & France   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & Chicago & West Michigan   Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago	1	Bay View, Little Traverse & Mackinac	\$50,000 00	\$100 00	467
Chicago & France   Chicago & France   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & West Michigan   Chicago & Chicago & West Michigan   Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago & Chicago	2 2	Chicago & Canada Southern	1,096,000 00	100 00	28,674 10,950
Chicago & Northwestern		Chicago & Grand Trunk	0,00,000 00	100 00	66,000
Detroit, Grand Haven & Milwankee	5	Chicago & Northwestern	6.800.600 00	100 00	67,331
Detroit, Grand Haven & Milwankee	7	Cincinnati, Jackson & Mackinaw	20,850,000 00	100 00	7.989
Detroit, Grand Haven & Milwaukee	8	Cincinnati, Wabash & Michigan	2.000.000 00	100 00	20,438 16,700
16   Saginaw & Clare County   500,000 00   100 00   17   Saginaw & H. Pleasant   100,000 00   100 00   4   18   Grand Rapids & Indiana   100,000 00   100 00   4   19   Lake Shore & Michigan Southern System   50,000,000 00   100 00   500   20   Detroit, Minroe & Toledo   5,000,000 00   100 00   500   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   100,000 00   100 00   23   Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Ale	10	Detroit, Grand Haven & Milwaukee	1,500,000 00	50 00	16,700 30,000
16   Saginaw & Clare County   500,000 00   100 00   17   Saginaw & H. Pleasant   100,000 00   100 00   4   18   Grand Rapids & Indiana   100,000 00   100 00   4   19   Lake Shore & Michigan Southern System   50,000,000 00   100 00   500   20   Detroit, Minroe & Toledo   5,000,000 00   100 00   500   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   100,000 00   100 00   23   Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Ale	11	Detroit, Lansing & Northern	4,410,000 00 675,000 00	100 00	43,366
16   Saginaw & Clare County   500,000 00   100 00   17   Saginaw & H. Pleasant   100,000 00   100 00   4   18   Grand Rapids & Indiana   100,000 00   100 00   4   19   Lake Shore & Michigan Southern System   50,000,000 00   100 00   500   20   Detroit, Minroe & Toledo   5,000,000 00   100 00   500   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   100,000 00   100 00   23   Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Ale	13	Duluth, South Shore & Atlantic	22,000,000 00	190 00	220,000
16   Saginaw & Clare County   500,000 00   100 00   17   Saginaw & H. Pleasant   100,000 00   100 00   4   18   Grand Rapids & Indiana   100,000 00   100 00   4   19   Lake Shore & Michigan Southern System   50,000,000 00   100 00   500   20   Detroit, Minroe & Toledo   5,000,000 00   100 00   500   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Detroit, Monroe & Toledo   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Fort Wayne & Jackson   5,000,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   20,000 00   100 00   22   Salamazoo, Alexan & Grand Rapids   100,000 00   100 00   23   Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Alexan & Salamazoo, Ale	14	Flint & Pere Marquette	6,500,000 00 400,000 00	100 OC	65,000 4,000
13	16	Saginaw & Clare County	500,000 00	100 00	
Kalamazoo, Allegan & Grand Rapids   610,000 00 100 00 00 24	17	Saginaw & Mt. Pleasant	100,000 00	100 00	4,988
Kalamazoo, Allegan & Grand Rapids   610,000 00 100 00 00 24	18	Lake Shore & Michigan Southern System	50,000,000 00	100 00	600,000
Kalamazoo, Allegan & Grand Rapids	20	Detroit, Hillsdale & Southwestern	8 850 000 00	100 00	4,141
Kalamazoo, Allegan & Grand Rapids	21	Fort Wayne & Jackson	8.000,000 00	100 00	27,196
Commercial roads	23	Kalamazoo, Allegan & Grand Rapids	610,000 00	100 00	27,195 6,100 2,809
Commercial roads	24	Kalamazoo & White Pigeon	230,900 00 610,000 00	100 00	2,809 6,100
Commercial roads	26	Manistique.	100 000 00	100 00	
Commercial roads	27	Marquette, Houghton & Ontonagon	565,600 00	100 00	5,656 12,500
Commercial roads	29	Mason & Oceana	150,000 00	100 00	1,500
Commercial roads	80	Michigan Air Line Railway	1,500,000 00		3,000 187,882
Commercial roads	82	Canada Southern Bridge	1,500,000 00	100 00	4.500
Commercial roads	83	Detroit & Bay City	2,000,000 00	100 00	20,000
Commercial roads	81 85	Grand River Valley	2,500,000 00	100 00	9,824 20,000
Commercial roads	36	Kalamazoo & South Haven.	500,000 00	100 00	8,254
Commercial roads	87 28	Michigan Air Line R. R.	4,000,000 00	100 00	7,561 3,000
Commercial roads	89	Saginaw Bay & Northwestern	300,000 00	100 00	200
Commercial roads	40	Toledo, Canada Southern & Detroit	2,000,000 00 10,000,000 00	100 00	15,476 70,000
Commercial roads	42	Milwaukee & Northern	8,000,000 00	100 09	70,000 41,850
Commercial roads	43	Mineral Range	400,000 00 950,000 00		8,917
Commercial roads	45	Ontonagon & Brule River	1,000,000 00	100 00	
Commercial roads	46	Pontiac, Oxford and Port Austin	1,500,000 00	100 00	15,000 10,900
Commercial roads	48	Saginaw. Tuscola & Huron	600,000 00	100 00	1.232
Commercial roads	49	Saginaw Valley & St. Louis	300,000 00	100 00	2,558 700
Commercial roads	50 51	Saginaw & Grand Rapids	4.040.400 00	100 00	40,400
Commercial roads	52	Toledo, Saginaw & Muskegon	***************************************		2,500
Commercial roads	58	Toledo & South Haven	200,000 00 205,000 00	100 00	2,050
Commercial roads	55				l
ORE AND FOREST ROADS.   \$100,000 00 \$100 00	56	Detroit, Union R. R. Depot & Station Company	1,000,000 00	100 00	10,000
Allegan & Lake Shore   \$100,000 00   \$100 00     Bear Lake & Eastern   250,000 00   100 00     Buckley & Douglas   40,000 00   100 00     Colfax & Big Rapids   40,000 00   100 00     Crawford & Manistee River   50,000 00   100 00     Grass Lake & Manistee River   32,000 00   100 00     Hancock & Calumet   350,000 00   100 00     Hancock & Calumet   150,000 00   100 00     Hobart & Manistee River   60,000 00   100 00     Hobart & Manistee River   60,000 00   100 00     Lake County   800,000 00   100 00     Manistee & Luther   400,000 00   100 00     Mecosta   100,000 00   100 00     Paris & Pere Marquette River   48,000 00   100 00		Commercial roads	\$195,066,000 00		1,624,233
2   Bear Lake & Eastern   250,000 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00					
Harde & County   150,000 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00	1	Allegan & Lake Shore	\$100,000 00	\$100.00	163
Harde & County   150,000 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00		Buckley & Douglas	40,000 00	100 00	131
Harde & County   150,000 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00	4	Colfax & Big Rapids	40,000 00	100 00	500
Harde & County   150,000 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00   100 00	6	Grass Lake & Manistee River	52,000 00 52,000 00	100 00	350 8,500
10   Lake County   300,000 00   100 00   111   Manistee & Luther   400,000 00   100 00   12   Mecosta   100,000 00   100 00   13   Paris & Pere Marquette River   48,000 00   100 00	7		350,000 00	100 00	8,500
10   Lake County   300,000 00   100 00   111   Manistee & Luther   400,000 00   100 00   12   Mecosta   100,000 00   100 00   13   Paris & Pere Marquette River   48,000 00   100 00	8	Hobart & Manistee River	60.00ù 00	100 00	1,000 600
13 Paris & Pere Marquette River 48,000 00 100 00	10	Lake County	800,000 00	100 00	. 600
		Manistee & Luther	400,000 00 100,000 00	100 00	4,000 500
	18	Paris & Pere Marquette River	48,000 00	100 00	480
· · · · · · · · · · · · · · · · · · ·			\$1,940,000 00		11,824
Total for all roads		Total for all roads.	\$197,006,000 00		1,636,067

<sup>•</sup> Guaranteed.



## TABULAR STATEMENT.

## CAPITAL STOCK .- CONTINUED.

		Amount	paid in.			Stockh	olders.	-
On Common.	On Preferred.	On Shares not Issued.	Total.	Per Mile of Road.	Amount Leld in Michigan.	Whole number.	No. in Mich.	
\$46,700 00 2,667,400 00 978,984 67			\$46,700 00 2,667,400 00 978,984 67	\$8,192 98	\$46,600 00	89 98	88	1-
2,667,400 00			2,667,400 00	1 39,455 58	10 30	98	8	1
978,984 67			978,984 67	18,443 65	100 00	23	1	
6,600,000 00		l	I RAMO (IN IN	2,000 00	135,500 00	283	15	i
52,540,115 97	\$22,325,454 56		74.865.570 58	2,000 00 17,789 91	110,800 00	2,799	6	1
52,540,115 97 6,788,100 00		\$63,700 00	74,865,570 58 6,796,800 00 15,882,965 00	16,419 77	110,800 00 11,000 00	600	2	1
798,965 00		15,084,000 00	15.882.965 00	49,387 83	2,000 00	81	2	1
2,044,158 76			2,044,158 76	12,434 06	4,000 00	40	8	1
1,670,000 00			1,670,000 00	7,656 00	1.592.400 00	9	8	1
1,500,000 00			1,500,000 00	7,936 51	1,592,400 00	14	Š	1
1,825,600 00	2,510,000 00		4.835.600.00	19,567 63	10,500 00	478	ĭ	1
4,500 00			4,500 00	105 63			ł	
12,000,000 00	10,000,000 00		22,000,000 00	111,280 00	319,100 00 159,700 00	56	10	1
	6,500,000 00		6,500,000 00	19,285 54	159,700 00	1,227	14	i
400,000 00			400,000 00	15,077 27	400,000 00	9	9	1
1,035 00			1 025 00	31 68	200,000 00	8	8	1
44,287 06			1,035 00 44,287 08	3.052 17		ļğ	ğ	ł
4,988,300 00			4,988,300 00	12.362 58		716	265	ı
49,466,500 00	533,500 00		50,000,000 00	57.812 16	40,860 00	8,783	30	
1,844,000 00			1,844,000 00	91 740 7E				
414,100 00			414,100 00	6,640 47	100 00	2	1	1
431,747 44	2,287,832 09	1	2.719.579 53	27,799 OB	1			ŀ
610,000 00			610,000 00	6,640 47 27,799 08 10,441 00 6,295 00	206,600 00	92	14	1
230,900 00			230,900 00	6,295 00	l		1	1
610,000 00	l		619,000 00	9,977 12	1		1	:
55,000 00	. <b></b>	l . <b></b>	55,000 00		3,928 57	7	5	1
2,878,670 67 625,000 00	3,278,456 00		5,657,126 67	41,438 08 55,555 55	269,000 00	65	7	1
625,000 00	3,278,456 00 623,000 00	·	5,657,126 67 1,250,000 00	55,555 55	3,928 57 269,000 00 300 00	8	8 7	1
150,000 00			150,000 00	7,048 86	150,000 00	7	7	1
900,000 00			300,000 00 18,738,204 00	2,841 20	2,000 (10 102,300 00	7	4	L
18,788,204 00			18,738,204 00	69,382 77	102,300 00	1,484	14	
450,000 00			450,000 00	12,267 76		16		١.
2,000,000 00			2,000,000 00	18,582 34	800,000 00	7	8	L
491,200 00			491,200 00 2,000,000 00	5,862 27 6,777 36	824,450 00 1,806,600 00	48	28	!
2,000,000 00			2,000,000 00	0,777 80	1,806,600 00	33	21 124	1
<b>325,400 00</b>			825,400 00	8,287 97	235,100 00	202	124	1
************			***************************************	20,435 96	42,000 00			٠
200,000 00 200,000 00			800,000 00	2,338 63	1,200 00	82 8	7	1
1,547,68: 50			200,000 00 1,547,662 50	2,338 63 27,701 13	1,200 00	17	'	1
2,100,000 00	5,000,000 00		7,000,000 00	13,178 10		281		1
4,135,000 00	0,000,000 00		4,185,000 00	17,000 00		41		1
891,700 00			260 710 10	28,041 18	5,500 00	62	6	1
001,100 00		1,000 00	1,000 00	27 20		7	7	i
		490,170 00	490,170 00	27 20 24,508 50		ġ	8	1
1,500,000 00		200,110 00	1,500,000 00	15,000 OB	900 00	15	9	1
1,090,000 00			1.090.000 00	5,000 00	1,090,000 00	10	10	ı
123,200 00		18C 00 9,504 01	123,330 00 264,804 01	1.852 64	60,700 00 82,200 00	132	127 70	1
255,800 00		9,504 01	264,804 01	7,459 27	82,200 00	88 28	70	1
70,000 00	! !		70,000 00	19,444 44	<b></b>	28		.
4,040,000 00	!		4,040,000 00	22,320 44	11,000 00	145	10	1
			l					.
100,000 00			100,000 00	2,782 21	96,810 00	7	5	1
205,000 00		- <b></b>	205,000 00	7,884 62	85,400 00	73	72	1
					1 000 000 00			١.
1,000,000 00			1,000,000 00		1,000,000 00	- 6	6	1
192,421,781 07	<b>\$</b> 53,060,242 65	\$15,648,504 01	<b>\$261,180,477 7</b> 3	\$22,210 80	<b>\$</b> 8,607,848 87	13,144	998	
\$16,300 00			\$16,300 00	<b>\$3,26</b> 0 00	 	7	7	İ
Aroton m		\$102,812 00	102,312 00	5,684 00	\$100,000 00	- 7	7	1
500 00			500 00	02 50	18,100 00	7	7	1
		27,602 76	27,602 76	2,760 27	27,602 76 50,000 00	7	7	1
50,000 00		<b></b>	1 50,000 60	5,000 00	50,000 00	1 7	7	1
31,7 <b>36 3</b> 8			31,736 38	. 3.987 OS	3,967 05	7	7	1
<b>350,000 00</b>			{ <b>350.000.00</b>	17,190 57	100 00	11	7 7 1 2 7 6	1
100,000 00			100,000 00 60,000 00	13,333 83	200 00	6	2	1
6.,000 00			60,000 00	64 98	60,000 00	7	7	1
60,000 00			60,000 00	5,454 54		<u> </u>	<u> </u>	1
100,000 00			100,000 00	1,687 76 5,000 00	50. 200. 200.	7777	7 7	ļ
50,000 00 4×,000 00			50,000 00 48,000 00	8,000 00	50,000 00 48,000 00	6	6	
		\$129,914 76	\$996,451 14	\$5,674 55	\$352,969 81	93	78	-
\$200.536 24				1 4-4	,	9		•
\$866,536 38 193,288,267 45	\$53,090,242 65		\$262,126,928 87	\$21,966 71	\$8,960,818 68	13,237	1,076	1-

## MICHIGAN RAILROAD RETURNS.

#### 4.—INDEBTEDNESS.

Bay View, Little Traverse & Mackinac   25,000 00   5,25,546 51   5   5   1   1   1   1   1   1   1	lotal.	Tota	Unfunded.	Funded.	Railroads.	Line No.
Duluth, South Shore & Atlantic.	\$50,546 51	\$5	\$25,546 51	\$25,000 00	Bay View, Little Traverse & Mackinac	
Duluth, South Shore & Atlantic.	5,202,837 05 1,786,141 46	5,20		2,541,000 00	Chicago & Canada Southern	2
Duluth, South Shore & Atlantic.	1,780,141 40 2,941,886 16	1,78	941 898 18	12,000,141,40	Chicago & Grand Trunk	8
Duluth, South Shore & Atlantic.	,678,580 92	105.67	4.601.080 92	<b>= 101.077.500 00</b>	Chicago & Northwestern	3
Duluth, South Shore & Atlantic.	241,404 57	4.24	221,404 55	4,020,000 00	Chicago & West Michigan	ĕ
Duluth, South Shore & Atlantic.	1,241,404 57 1,843,715 79	4,84	143,215 79	4,200,500 00	Cincinnati, Jackson & Mackinaw	7
Duluth, South Shore & Atlantic.	940,437 61	94	940,437 61	9 500 000 00	Cincinnati, Wabash & Michigan	8
Duluth, South Shore & Atlantic.	2,526,347 75	Z,0Z	1 128 104 48	5,800,000 00 5,900,000,00	Detroit, Bay City & Alpena	10
Duluth, South Shore & Atlantic.	677.770 28	3.67	420,770 28	8.257.000 00	Detroit, Lansing & Northern	īΪ
Saginaw & Clare County	566,000 00	56		666,000 00	Saginaw & Western	13
Saginaw & Clare County	,678,088 19	4,67	678,088 19	4,000,000 00	Duluth, South Shore & Atlantic	18
Saginaw & Clare County	1,677,817 <b>7</b> 8	6,67	1,168,317 78	5,509,900 00	Flint & Pere Marquette	14
Manistique	112,423 78	11	112,420 18		Saginary & Clara County	15
Manistique	·				Saginaw & Mt. Pleasant	17
Manistique	.876.394 37	12.87	1.034.394 37	11.342.000 00	Grand Rapids & Indiana	า๋ห์
Manistique	3,693,474 38	48,69	1,927,474 88	45,442,000 00	Lake Shore & Michigan Southern	19
Manistique					Detroit, Hillsdale & Southwestern	20
Manistique		•••••		924,000 00	Fort Wayne & Jackson	21
Manistique	840,000 00	04		840 000 00	Kalamazoo, Allegan & Grand Rapide	22 90
Manistique				400.000 00	Kalamazoo & White Pigeon	24
Manistique	,525,000 00	1,52		1,525,000 00	Northern Central Michigan	25
Wabash	48,172 64 5,034,584 93	4	45,172 64		Manistique	26
Wabash	i,034,584 <b>9</b> 3	5,03	130,884 92	4,908,700 00	Marquette, Houghton & Ontonagon	27
Wabash	81,737 82				Marquette & Western.	28
Wabash	.542 352 OP	1.54	33.685 42	1.508.688.67	Michigan Air Line Railway	20
Wabash	.880.401 66	11.88	1,880,401 66	10,000,000 00	Michigan Central	ăĭ
Wabash	.972,485 37	1.97	972,485 37	1,000,000 00	Canada Southern Bridge	82
Wabash	3.540.000 00	8.57		ъ 8,576,000 00	Detroit & Bay City.	88
Wabash	500,000 00	1,50		9 700,000 00	Grand River Valley	84
Wabash	710 000 00	2,10 71		710,000,00	Kalamazoo & South Haven	98
Wabash	2.100,000 00	2.10		c 2.100.000 00	Michigan Air Line Railroad	27
Wabash	662,010 46	66	338,375 46	323,635 00	Michigan Midland & Canada	88
Wabash	<del>-</del>				Saginaw Bay & Northwestern	89
Wabash	3,288,168 08	3,28	1,776,430 58	1,511,787 50	Toledo, Canada Southern & Detroit	40
Wabash	9,868,055 <b>86</b> 1,341,917 81	9,80	910 0.7 21	4 191 000 00	Milwaukee, Lake Shore & Western	41
Wabash	640.728 73	7,01	28.628 73	612,100,00	Mineral Range	48
Wabash	640,728 73 805,173 01	80	AA 17X 01 1	750,000 00	Muskegon, Grand Rapids & Indiana	44
Wabash	84,359 95 ,896,605 86	8	84,859 96		Ontonagon & Brule River	45
Wabash	,896,605 86	1,89	396,605 86 !	1,500,000 00	Pontiac, Oxford & Port Austin	46
Wabash	575,859 68	2,74	20 UG1,20G	1,010,000 00	Port Huron & Northwestern	47
Wabash	538,430 99	53	92,430 19	446,000 00	Saginaw Valley & St. Louis	49
Wabash					Saginaw & Grand Rapids	50
Wabash	,412,956 42	4,41	682,956 42	8,780,000 00	Toledo, Ann Arbor & North Michigan	51
Wabash					Toledo, Saginaw & Muskegon	52
Wabash	216,000 00 443,756 35		9 7EA OE	216,000 00	Toledo & South Haven	53
Detroit, Union R. R. Depot & Station Co.   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00   Sci.,000 00	150,700 00	19	0,100 00	420,000 00	Wabash	88
Commercial roads	550,000 00	55		550,000 00	Detroit, Union R. R. Depot & Station Co.	56
ORE AND FOREST ROADS.  1 Allegan & Lake Shore \$16,000 00 \$2,788 26 \$1  2 Bear Lake & Eastern \$16,000 00 \$2,788 26 \$1  8 Buckley & Douglas \$40,000 00 \$2,705 14 \$10  4 Colfar & Big Rapids \$10,000 00 \$1  5 Crawford & Manistee River \$3,323 51  6 Grass Lake & Manistee River \$250,000 00 \$141,609 67 \$26  7 Hancock & Calumet \$250,000 00 \$141,609 67 \$26  8 Heela & Torch Lake \$250,000 00 \$3,788 26  8 Heela & Torch Lake \$3,823 51 \$33				l	Desired Chica IV. IV. Depot & Station Co.	_
1 Allegan & Lake Shore   \$18,000 00   \$2,788 26   \$1     2 Bear Lake & Eastern   \$18,000 00   \$2,788 26   \$1     3 Buckley & Douglas   40,000 00   62,706 14   10     4 Colfar & Big Rapids   10,000 00   10     5 Crawford & Manistee River   8,322 51     6 Grass Lake & Manistee River   250,000 00   141,609 67   39     8 Hecla & Torch Lake   386,629 13   33	5,817,518 78	\$285,31	\$24,682,588 25	\$260,684,980 63		
Allegan & Lake Shore   \$16,000 00				1	ORE AND FOREST ROADS.	
Bear Lake & Eastern   \$18,000 00   \$2,788 38   \$1   \$1   \$1   \$1   \$1   \$1   \$1   \$					Allegan & Lake Shore	1
Buckley & Douglas	\$19,783 86 102,705 14 10,000 00	\$1	\$3,788 36	\$18,000 00	Bear Lake & Eastern	2
Collar & Big Rapids   1   1   1   1   1   1   1   1   1	102,705 14	10	62,705 14	40,000 00	Buckley & Douglas	- 8
Crawlord & Mainistee River   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common   Common	3,823 51		9 999 81	10,000 00	Colfar & Big Rapids	- 1
7 Hancock & Calumet	0,050 01	•			Grass Lake & Manistee River	ē
8 Hecla & Torch Lake       336,629 13       33         9 Hobart & Manistee River       58,332 05       5         10 Lake County       500 00       1         11 Manistee & Luther       158,634 77       15         12 Mecosta       21,000 00       731 88       2         13 Paris & Pere Marquette River       42,633 64       4	391,609 67	<b>320</b>	141.609 67	250,000 00	Hancock & Calumet	7
9 Hobart & Manistee River. 58,332 05 5 10 Lake County 500 00 1 11 Manistee & Luther 158,034 77 15 12 Mecosta 21,000 00 731 88 2 13 Paris & Pere Marquette River 42,638 64 4	224 620 12	ี	886,629 18		Hecla & Torch Lake	8
Lake County	58,332 05	5	58,332 05		Hobart & Manistee River	. 9
Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main   Main	500 00		500 00		Lake County	10
18 Paris & Pere Marquette River. 42,638 64 4	152,084 77 21,781 88	10.	721 22	91 nm m	Mennete & Luiller	11
	21,781 88 42,683 64	Ĩ.	42,633 64	21,000 00	Paris & Pere Marquette River	18
	,189,283 15					_
	3,456,602 03	£298 AF	<b>625 434 891 40</b>		Total for all roads	



a Includes proprietary roads.

b Issued by Mich. Central, but secured by lst mortgage on this road.
c \$1,900,000 issued by Mich. Central and secured by mortgage on Air Line Division.
d Debt extinguished by foreclosure.

### INDEBTEDNESS.—CONTINUED.

Miles of Road Owned.	Debt per Mile of Road Owned.	Indebtedness as per Previous Report,	Increase over Previous Year.	Decrease from Previous Year.	Total Interest paid on Indebtedness,	
5.70 67.60	\$4,867 81 76,965 05 80,085 00 89,187 00 25,109 02 10,446 42 62,893 91 5,683 93 11,581 84	\$47,045 06 5,017,581 56	\$3,501 45 185,285 49		#177 970 00	-
59.87	20,085,00	1.798.141.48	100,400 20		\$177,870 00 65,700 00 767,596 11 5,290,793 21 232,258 38	. 1
830.50	89,157 00	1,786,141 46 12,979,140 04		\$37,758 88	767,596 11	.
a 4,208.79	25,109 02	98,290,120 26	7,888,460 66		5,280,798 21	. 1
418.94 821.60	10,848 42	4,108,747 81	187,656 74		202,258 38	٠1
164.40	V 883 03	903,199,99	28 8 15 07		40,698 78	-1
164.40 197.40	11,581 84	2.368.378 47	157,969 28		130,450 01	1
189.00	33,524 38	6,211,455 84	124,648 62		13c,450 01 351,533 34 273,696 d0	.
221.57	33,524 36 16,598 68 13,286 39	12,479,140 04 98,290,1390 26 4,106,747 81 352,135 85 903,822 54 2,368,378 47 6,211,455 84 8,578,829 67 566,000 00	7,888,400 60 137,656 74 8,991,579 94 86,615 07 157,969 28 124,648 62 96,940 61		278,696 d0	١.
42.60 197.40	28,657 00	7 8 840 418 89		1,671,328 68	265,758 07	-
887.04	19,811 65	f 6,849,416 82 6,096,638 88	580,678 95	1,011,000 00	834,057 38	ان
26.58	4,237 60	91,248 50	21,180 28			
						-1
404.45	30,672 60	11,981,528 17	894,866 20		760,600 00	-1
404.45 859.15	56,301 50	49,071,153 14	001,000 20	877,678 76	8,276,140 00	,
65.20 63.86	23,002 00				-,-,-,-	۱.
63.86						-1
97.83 58.42	14,878 00	840,000 00				-
86.57		•				1
61.14	24,943 75	1,525,000 00 9,469 74 4,786,143 74				-1
14.00 180.97	8,440 90 86,878 00	9,469 74	88,702 90		454 41	,
23.01		4,786,148 74	298,441 18		e 89,793 93	١.
21 28	1,491 93 14,603-60 48,990 08 538,990 00 24,285 00 17,900 00		81,787 82		1,562 19	
105.59	14,605-60	1,614,741 09		72,889 00	72,855 17	1
270.07 3.66	48,990 08	12,199,841 13	78,407 92	818,939 47	1,080,800 00	1
3.00 147.25	94 985 00	2.578.000.00	78,407 92			-
83 79	17,900 00	1,500,000 00				-
293.10		3,048,000 00		834,000 00		-1
293.10 89.50 115.16	17,974 68 18,236 00 45,096 08	1,614,741 09 12,199,341 13 1,894,077 45 3,578,000 00 1,500,000 00 3,043,000 00 710,000 00 2,208,000 00 633,820 80	·	108,000 60		-
14.68	15,200 UU 45,008,08	83 1 890 80	28,189 86	100,000 00		-
85.52			20,200 00			1
55.87	58,853 91 18,577 60 17,994 81 87,689 92 21,903 51 1,717 08	8,801,755 95		18,587 87		-
081.18 211.48	18,577 60	8,493,850 45	1,374,205 41		517,687 08 200,100 00	: 1
17.00	27 680 92	659,646 82	4,841,917 81	18,918 09	200,100 00	i
581.16 811.46 17.00 86.76	21,903 51	794,948 10	10,224 91 84,839 95 90,061 41	20,020 00		1
טעי.טב	1,717 99		84,859 95			-1
100.20		1,808,544 45	90,061 41		90,000 00	. 1
218.00 66.57	12,590 78 8,630 48	531.881.50	43,998,18		82,991 59	.
85.50	15,167 07	1,808,544 45 2,479,710 20 531,861 50 525,979 49	65,080 44 43,998 18 11,451 50		85,680 00	.
8.60					90,000 00 151,004 69 ;82,991 59 85,680 00 85,544 00 184,800 00	1
181 .89	24,380 97	8,415,179 82	997,776 60		181'800 00	1
36.60	5,901 64	g 53,697 53	162,802 47		8,700 00	1
26.00	17,067 55	447,967 41		4,211 06		-1
885130 8.34	550,000 00	g 53,697 53 447,967 41 h 82,865,296 54 935,000 00		4,211 08 82,865,296 54 885,000 00		-
	200,000 00	865,000 00		363,000 00		-
756.91	<b>\$24,268</b> 00	\$350,796,411 03	. \$20,728,211 15	\$86,207,108 80	\$14,826,073 17	
5.00						1
17.00	\$6,738 09	30,472 42		\$10,689 06	\$1,455 87	-1
8.00	12,838 14	97,211 96	\$5,493 18		9,568 81	1
17.00 8.00 6.00 10.00 8.00 20.86 7.50 9.24	\$6,786 09 12,838 14 2,760 27 333 85	680 UN	\$5,493 18 10,000 00 2,663 51			-
8.00						ا:
20.88	19,234 28	854,571 84 893,432 79 51,914 82 500 00	87,097 88		15,650 44	1
7.50 9.94	44,883 88 6,312 99	893,432 79 51 014 99	8,417 23	56,803 66		-
11.00	45 45	500 00				1
47.50	45 45 2,565 98	71,571 92	80,462 85			.]
10.00 16.00	2,100 00 2,664 60	71,571 92 84,000 00 35,205 39	7,428 25	18,000 00	1,752 10	١
10.00				200 (00 200		-1
175.60	\$6.483 m	\$1,072.541 14	\$148.602 A5	<b>291.492</b> 72	C2X.422.72	, 1
175.60 932.51	\$6,483 00	\$1,072,541 14	\$146,502 85	\$30,492 72	\$28,422 23	-

e For one and one-half months, f Reported last year as D. M. & M. and M. & M. Rd. Co. g Includes Paw Paw road. h Mortgage foreclosed. No debt reported.

# MICHIGAN RAILROAD RETURNS.

### 5.—COMPARATIVE STATEMENT,—COST OF

Line No.	Railroads.	Total Reported Cust of Property.	Cost Per Mile of Road,	Proportion of Ocet for Michigan.
1 2 3 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Ray View, Little Traverse & Mackinso Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinsw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankes Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Fiint & Pere Marquette Manistee Saginaw & Clare County	5,176,567 58 2,765,126 18 18,535,746 25 157,068,374 94 10,815,466 81 20,890,100 91 8,226,717 80 4,186,615 01 6,707,015 80 7,479,298 11 570,500 00	\$12,578 95 76,576 29 46,574 46 56,083 95 87,319 12 24,920 12 653,570 96 19,627 30 20,955 50 33,485 50 13,392 02 Not reported 35,456 73 19,314 87	\$71,700 00 4,818,712 07 2,705,125 13 12,704,985 22 12,883,899 91 9,456,735 12 9,855,561 655,561 60 6,707,015 89 7,479,286 11 570,500 00 28,054,887 02 11,276,259 02 512,423 78
17 18 19 20 21 22 23 24 25 27	Duluth, South Shore & Atlantic Flint & Pere Marquette.  Manistee Saginaw & Ulare County Saginaw & Mt. Pleasant. Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Manistique Marquette, Houghton & Ontonagon Marquette & Western Mason & Oceana Michigan Air Line Rallway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Air Line R. R. Michigan Air Line R. R. Michigan Air Line R. R.	14,215,483 12 84,000,000 00 1,287,648 59 1,381,600 00 2,719,579 53 1,450,000 00 610,000 00 1,357,000 00 124,999 37 10,966,911 04	30,555 24 90,082 44 19,871 18 22,155 22 27,799 08 24,820 00 16,680 00 22,195 00 8,928 53 71,222 30	12,339,039 35- 21,047,902 49- 1,287,648 59- 1,196,381 88- 1,348,168 79- 1,450,000 00- 610,000 00- 1,257,000 00- 124,999 37- 10,966,911 (4
17 119 201 222 22 22 22 22 22 22 22 22 22 22 22 2	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City Wabash (Detroit Division) Detroit, Union R. R. Depot'& Station Company	225,536 15 3,084,389 99 16,982,828 75 8,426,721 47 720,093 72 697,394 22 509,365 13 8,024,074 08 8,579,050 13 681,427 60 70,000 08 ,2877,471 71 224,090 00 454,166 54 2,528,600 00 1,947,712 95	7,952 U4 116,885 21 110,754 25 110,754 25 486,578 00 24,625 31 34,229 17 24,844 22 25,212 66 25,616 33 39,941 35 55,206 53 11,934 00 34,749 37 42,398 74 42,398 74 18,971 55 25,468 33 33,013 81 16,417 67 19,444 44 45,678 63 6,395 00	169,219 55 1,783,011 05 25,294,977 00 1,790,977 05 8,826,042 03 2,887,044 03 7,335,530 00 1,085,400 00 2,794,741 61 586,342 02 225,526 15 2,009,618 62 3,172,048 97 720,693 72 997,394 22 509,395 51 3,024,074 06 3,579,060 12 623,580 36 681 427 60 70,000 07 7,000 88 234,000 00 4,539,065 88 234,000 00 1,947,712 95
1 2 3 4 5 6 7 8 9 10 11 12 13	Commercial roads ORE AND FOREST ROADS.  Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Colfax & Big Rapids Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet. Hecla & Torch Lake Hobart & Manistee River Lake County. Manistee & Luther Mecosta Paris & Pere Marquette River	\$16,800 00 121,249 77 103,207 52 27,602 76 37,184 76 31,736 38 735,838 19 436,639 18 77,716 76 70,000 03 404,700 38 67,480 05 99,440 90	\$2,440 00 6.736 09 12,900 94 2,760 27 5,718 46 3,967 05 36,141 11 58,217 21 8,410 90 6,418 18,7 7,046 05 6,748 00 5,644 00	\$288,027,385 81 \$16,300 00 121,249 77 108,207 52 27,602 76 81,736 38 735,863 19 436,629 13 77,716 76 70,600 00 804,700 00 804,700 00 804,700 00 99,440 90
_	Ore and forest roads	\$2,129,681 60	\$12,128 00	\$2,129,681 60
	Total for all roads	\$499,601,490 52	\$41,031 00	\$240,157,066 90

#### PROPERTY WITH STOCK AND DEBT,

portion of Cost r Michigan for previous Year,	Increased Cost, 1887.	Decreased Cost, 1887.	Total Stock and Debt.	Stock and Debt per Mile of Road.	Excess of Stock and Debt over Cost Per Mile of Road.
\$71,700 00 4,818,712 07 2,765,126 18 12,656,590 65 12,584,462 78 9,284,694 97 8,590,550 20			\$97,246 51 7,870,287 05	\$17,000 79	\$5,481 84 89,847 53 1,958 54 8,078 79
4,818,712 07			7,870,287 05	116,423 62 48,528 00	89,847 53
2,765,126 18			2,765,126 13	48,528 00	1,968 54
12,656,590 65	\$108,394 58		19,541,386 16	59,157 74	8,078 79
12,584,462 78	279,487 13		100,514,151 45	42,896 93 26,666 19	5,577 80
8,580,550 20	170,040 75 1,805,319 56 11,352 99 303,315 01		180,544,151 45 11,038,204 55 20,226,680 79	62,593 91	1,745 95
844 108 RS	11 352 60		2,984,596 37	18,159 49	
644,198 88 8,833,800 00 6,700,000 00	202 215 01		4,196,347 75	19,237 83	
8 700 000 00	7.015 89		7,836,104 46	41 480 87	5,974 01
7.479.298 11			8.013.370 28	41,460 87 86,166 31 13,392 02	2,410 40
7,479,298 11 570,500 00			8,013,370 28 570,500 00	13,392 02	
3.011.205 15	28,043,682 75		<b>26,678,088</b> 19	134,937 00 39,097 17	
11,855,869 92		\$79,610 80	13,177,317 78	39,097 17	5,640 44
491,243 50	21,180 28		512,423 78	19,314 87	
	• • • • • • • • • • • • • • • • • • •		26,678,088 19 18,177,317 78 512,423 78 1,035 (0		
10 000 100 81				40.000	10.400.04
12,083,463 71 21,047,902 49 1,287,648 59 1,196,381 88	255,575 64		17,364,694 37 97,369,474 38	48,035 18	12,479 94 24,081 22
1 997 848 80			01.000.111 00	90 740 75	24,081 22 869 57
1 108 281 22			1,344,000 00 1,838,100 00	21 479 AD	OOR 01
			9 710 670 69	114,118 66 20,740 75 21,472 69 27,799 03	
1,450,000 00 610,000 90 1,857,090 00 63,212 22			1,450,000 00 630,900 00 2,135,000 00	24,820 00	
610,000 00			630,900 00	24,820 00 17,251 84 34,919 79	
1,857,090 00			2,135,000 00	34,919 79	
63,212 22	61,787 15		108,172 64	7,369 47 78,316 08	
10,984,516 05	2,894 99		10.691.711 59	78,316 08	7,093 78
			1,250,000 00		
148,453 47 1,888,985 07	25,766 08		1,240,000 00 181,787 82 1,842,352 09 30,618,605 66 2,422,485 37 5 576,000 00 1,991,000 00	8,540 29 17,446 51	588 25
1,888,985 07		\$100,924 02	1,842,852 (9	17,446 51	561 29
25,272,355 55	22,621 45		90,618,600 00	113,372 85	2,618 60 64,619 76
1,780,977 08	1,844 00		2,422,480 -11 5 ste 000 00	551,197 76 13,582 34 23,762 27	04,019 10
3,624,238 02 2,867,064 03 7,400,158 83	1,044 00		1 001 900 00	23,762 27	
7 400 158 83		64,628 88	4,709,000 00	15,957 30	
000,100 00	86,216 41		1 085 400 00	26 212 66	
8 082 649 95	00,210 41	287,908 84	1,085,400 00 2,100,000 00	5.019 97	
586,342 02		201,000 01	962,010 46	65,532 04	25,590 48
999,183 59 8,082,649 96 586,342 02 225,526 15			962,010 46 200,000 00	5,019 97 65,532 04 2,338 63	l
2,605,510 11 2,793,432 41	4,108 51 878,616 56		4,835,830 58 16,868,055 86	86,555 04	31,348 49
2,793,432 41	<b>378,616 56</b>		16,868,055 86	31,755 81	l
			8,476,917 31 1,032,428 78	34,956 <b>36</b> 60,731 <b>10</b>	206 99 18,387 86
602,756 95 616 758 12 508,579 51	117,936 77		1,082,428 78	60,731 10	18,387 86
616 758 12	80,636 10		806,173 01 524,529 95	21,930 71	2,959 16
0.000,079,01	5,787 00 3,570 <b>6</b> 3		3 396,605 86	1,717 99	952 25
3,020,503 45 8,574,118 25 597,240 04	4,986 87		9 980,000 CU 9 894 700 84	33,966 06 17,609 13	1 101 47
507 940 OA	28,340 33		8,884,790 64 699,189 68	10,503 07	1,191 47 1,185 78 5,882 94
681,427 50	10		202 925 00	22,626 34	5 882 04
70,000 90			70,000 00	19,444 44	i .
7.111.564 68	927,522 25 21,552 73		8,452,956 42	46,701 41	1,024 78 2,238 23
7,111,564 68 212,527 27	21,552 73		316,000 00	8,633 85	2,238 23
454,164 54 2,528,600 00			70,000 00 8,452,956 42 316,000 00 648,756 35	24,952 17	7,484 80
2,528,600 00					
2,017,070 88		69,857 93	1,550,000 00	A 18 05 00	4.50.00
211,402,867 73	\$27,228,947 50	\$602,429 92	\$548,447,998 61	\$47,055 86	\$4,742 86
\$16,300 00 109,803 54 98,490 14	911 AAR 98		\$16,300 00 122,095 36 103,205 14	\$3,260 01 6,736 09 12,900 64 2,760 27	\$820 00
98,490 14	\$11,446 25 4,717 88		103.205 14	12,900 R4	
	27,602 76		87,402.76	2,760 27	
48,134 41 28,709 85 708,352 94	·	¥10,949 65	53,323 51 31,736 38	5,000 00	
28,709 85	8,026 53 27,480 25 43,196 34		31,736 38	3,967 05	
708,852 94	27,480 25		741,609 67	36,424 88	288 72
893,482 79	43,196 34		486,629 13	58,217 21 12,806 49	
77,716 76			118,882 05	12,806 49	4,395 59
80,000 00	10,600 00		60,500 00	5,500 00	
196,248 48 84,658 82	108,456 90	18 180 08	252,084 77 71,781 88	4,253 75 7,100 00	0F0 00
90,440 90	9,000 00	17,178 27	71,781 88 90,688 64	5,664 60	852 00
\$1,912,278 18	\$245,528 89	\$28,122 92	\$2,185,784 29	\$12,157 55	\$29 55

<sup>•</sup> Reported as Mackinaw & Marquette previous year. • Includes Paw Paw.

#### 6.—TRACK MILEAGE.

	Road own	ned, miles.	Road op Mile	erated, es.
Railroads.	Total.	In Michigan.	Total.	In Michigan,
Bay View, Little Traverse & Mackinac	5.70 67.60	5.70	67.60	
Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction	50.87	62.94 59.87	59.87	62.94 59.87
Chicago Az (-rend Trunk	880 60	224.00	339.26	224.00
Chicago & Northwestern. Chicago & West Michigan Clincinnati, Jackson & Mackinaw. Cincinnati, Wabash & Michigan	a 4,208.79	807.54	4,208.79	344.70
Cincinnati Jackson & Mackings	413.94 821.60	879.48 133.00	413.94 156.00	879.48 150.00
Cincinnati, Wabash & Michigan	164.40	i 33.40	164.40	83.40
Detroit, Grand Haven & Milwaukee	191.10	197.40	197.40	197.40
Detroit Lenging & Northern	189.00 221.57	189.00 221.57	189.00 263.17	189.00 268.17
Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Fint & Pere Marquette	42.60	42.60		200.11
Duluth, South Shore & Atlantic	197.40	197.40	851.88	361.88
Manistee	<b>29</b> 0.18 <b>26</b> .53	290.18 28.53	363.57	363.57
Saginaw & Clare County	82.85	32.35		
Manistee Saginaw & Clare County. Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo	14.51	14.81		
Grand Rapids & Indiana	404.45	351.34	558.51	419.80
Detroit Hilledele & Southwestern	1,019.22 65.20	33⊌.68 65.20	1,841.88	507.84
Detroit, Monroe & Toledo.		1	1,021.00	
Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan	97.88	44.54		l . <b></b>
Kalamazoo, Allegan & Grand Rapids	58.42	58.42		
Northern Central Michigan				
Manistique Marquette, Houghton & Ontonagon Marquette & Western			14.00	14.00
Marquette, Houghton & Ontonagon	130.97	180.97	l	
Marquette & Western.	23.01 21.28	23.01 21.28	91 90	21.28
Mason & Oceana Michigan Air Line Railway	105.59	105.59	21.28 105.59	105.50
Michigan Central	270.07	221.00	1,587.14	1.051.97
Canada Southern Bridge	8.66	8.66		
Overd River Vellor	147.25 83.79	147.25 83.79		
Jackson, Lansing & Saginaw	295.10			
Michigan Central.  Canada Southern Bridge Detroit & Bay City.  Grand River Valley.  Jackson, Lansing & Saginaw  Kalamazoo & South Haven  Michigan Air Line R Be	89.50	39.50		
Michigan Air Line R. Pa. Michigan Midland & Canada	115.16	109.10		
Sacinaw Ray & Northwestern	14.68 85.52	14.68 85.52		
Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern	55.87	47.27	1	
Milwaukee, Lake Shore & Western	531.18	99.48	<b>592.2</b> 8	99.44
Milwaukee & Northern	811.46 17.00	58.00 17.00	826.66 17.00	58.00 17.00
Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern	86.76	36.76	17.00	17.00
Ontonagon & Brule River	20.00	20.00	20.00	20.00
Pontiac, Oxford & Port Austin.	100.20	100.20	100.20	100.20
Saginaw Tuecole & Huron	218.00 66.57	218.00 68.57	218.00 66.57	218.00 66.57
Saginaw Valley & St. Louis.	85.50	85.50	45.10	45.10
Fort Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City.	8.60	8.60		l <u></u>
Toledo, Ann Arbor & North Michigan	181.89 86.60	176.89 36.60	181.89 36.60	176.89
Traverse City	26.00	28.00	30.00	36.60
	385.80	75.20	885.80	79.10
Detroit, Union R. R. Depot & Station Co	8.84	8.84	8.84	8.84
Commercial roads, miles	11,756.91	5,592.81	12,229.23	5,668.67
ORE AND FOREST ROADS.				
Allegan & Lake Shore	5.00	5.00	5.00	5.00
Bear Lake & Eastern Buckley & Douglas	17.00 8.00	17.00 8.00	17.00 8.00	17.00 8.00
Colfax & Big Rapids	6.00	8.00	8.00	8.00
Colfax & Big Rapids. Crawford & Manistee River. Grass Lake & Manistee River.	10.00	10.00	10.00	10.00
Grass Lake & Manistee River	8.00 20.36	8.00 20.38	8.00 20.26	8.00 20.8
Hancock & Calumet Hecla & Torch Lake	7.50	7.50	7.56	7.5
HODARI & Madistee Kiver	9.24	9.24	9.24	9.2 11.0
Lake County	11.00	11.00	11.00	11.00
	47.50 10.00	47.50 10.00	47.50 10.00	47.50 10.00
	16.00	16.00	16.00	16.00
Mecosts				1 20.00
	10.00			
Mecosta	175.60	175.60	175.60	175.60

a Includes proprietary roads.

#### TRACK MILEAGE.—CONTINUED.

Main.	Second.	Sidings and	Estimated	Gar	nge.	Main Track,	Increase, 1887.	Decrease, 1887.	Track in
maiu.	Second,	spurs.	as single track.	Feet.	Inches.	1886.	1887.	1887.	joint use.
						5.70			
62.94 59.37 224.00 309.54 379.48 133.00 83.40 197.40 189.00 221.57 42.60 197.70		4.08 24.12 40.50 56.43 96.31 18.98 6.74 20.73 57.82 20.09 9.12 25.25	67.02 88.49 264.50 965.97 474.79 144.93 40.14 218.18 246.32 301.66 51.72 222.95 587.75	4	834	62.94 69.87 224.00 809.54 879.48 183.40 33.40 165.80 189.00 221.57			
59.87		24.12	88.49	4	84 84 84 84 84 84 84 84 84 84 84	59.87			
224.00		40.50	264.50	4	834	224.00			
809.54		56.43	865.97	444444444444444444444444444444444444444	834	809.54			
879.48		95.81	474.79	4	834	879.48			
188.00		18.93	144.93	4 .	834	183.00			20.90
83.40		6.74	40.14	4	834	83.40			
197.40		20.73	218.13	4	834	165.80	88.60		
189.00		57.82	246.82	4	81/4	189.00			
221.57		80.09	801.66	4	834	221.57			4.00
42.60	. <b></b>	9.12	51.72	4	834	44.60 150.90	·••••		
197.70		25.25	222,95	4	834	150.90	48.50		
868.57		224.18	587.75	4	834	861.18	2.44		
									· <b></b>
:::::							.95		
419.80 339.68 65.20		87.22 67.24	507.02 408.92 69.42	4	8¾ 8¾ 8¾	850.89 845.40 65.30	.95		· · · · · · · · · · ·
88. ⊌BS		67.24	408.92	4	834	845.40		5.72	
05.20		4.22	6P.42	4	834	65.20			
-::-::-									
44.54 58.42		5.00 10.84	49.54 68.76	4	8¾ 8¼	44.54 58.42			
08.42		10.84	68.76	4	81/6	58.42			
17.00						6.50			
14.00 130.97 23.01 21.28 105.59 221.00 3.66 147.25 88.79 293.10 39.50 109.10 14.68 86.52 47.27 99.48 58.00 17.00	;-::-	.50 41.17 8.42 7.00 6.95 154.00 9.08 35.28 14.64 137.47 8.78 13.61 .29 22.78 5.57 11.82	14.50 173.24 81.43 28.28 112.54 495.00 12.72 182.53 96.43 482.57 48.28 122.71 16.49 85.81 70.06 69.82 22.00	4	**************************************	105.00	7.50		
190.91	1.10	41.17	178.24	4	026	100.26	2.18	4.45	
20.01		0.42	81.43	4	824	20.00	2.10	7.00	
105 60		7.00	28.28	1 1	836	105.50		7.00	
60.00	120.00	184.00	117.04	1 1	279	991.00			
9 88	120.00	104.00	485.00	1 1	079	2 .00			
147 96		98.00	10.72	1 1	0.78	147 98			
82 70		14 84	102.00	1 7	873	99 70			
905 10		197.47	490.50	1 7	278	905.10			
20 KI	i	2 79	402.01	4 4 4 4 4 4 4 4 4 4 8	1 829	185_42 20.83 28.28 106.59 221_00 281_06 147.25 88.79 296.10 39.50 109.10 14.68 64.50 47.27 91.57			
100.00		12 81	199 71	1 7	879	109.10			
14 88		10.01	15.71	1 7	1 82	14 88			
85 52	i	.00	25.21	1 3	832	84.50	21.02		
47 27		99.78	70.0K	1 7	812	47 27	ł		
UQ 48		5.67	105.06	1 7		91 57	7.91		
58.00		11.82	Au 22	1 7	80		58.00		
17.00		5.00	92.00	1 2	0,75	17.00	<b>20.00</b>		
11.00		0.00				86.76			J
20 00		1.00	91.00	(A	8¾ 8¾	20.00			
100.20		6.87	106.57	1	836	100.20			
218.00		12.80	220.80	Ž.	U/3	218.00			
66.57		6 68	78 25	l ğ		66.57			
20.00 100.20 218.00 66.57 35.50 3.60 176.39 36.60		6.87 12.80 6.68 8.20	88.70	4	836 )	17.00 86.76 20.00 100.20 218.00 66.57 39.10			6.00
8.60			21.00 106.57 230.80 73.25 88.70 8.60 198.17 37.61	4 4 8 8 4 4 4 8	8½ { 8½ } 8½ }	1			
176.39		21.78	198.17	<del> </del>	814	172.84	8.55		
36.60		1.01	87.61	8	-/5	ь 19.60	8.55 17.00		
				l .		26.00			
75.20 8.84		26.00 8.50	101.20 6.84	4	8¾ 8¾	179.84 b 19.60 26.00 75.20 8.84			8.90
8.84		8.50	6.84	4	834	8.84			
592.81	121.10	1,889.81	7,103.72			5,409.08	200.95	17.17	84.80
5.00			5.00	8	i	5.00			
5.00 17.00 8.00 6.00 10.00 8.00 20.36 7.50 9.24 11.00 47.50 10.00 16.00		1.00 1.50 4.00 8.00 1.50 7.02 1.18 10.00	5.00 18.00 9.50 10.00 13.00 9.50 27.38 - 8.63 19.24 11.00 59.25	88888484488		5.00 16.00	1.00		
8.00		1.50	9.50	Ř		8.00			
6.00		4.00	10.00	8	i	)	6.00		
10.00		8.00	13.00	l š	I	10.00	5.55		
8.00		1.50	9.60	Ř		8.00			
20.86		7.02	27.88	- Š	l	20.86			
7.50		1.18	8.63	4	1	7.50			
9.24		10.00	19.24	i A	i	9.24			
11.00		20.00	11.00	4	816	8.00	8.00		
47.60		11.75	50 9K	I	814	88.00	12.50		
10.00		1	10.00	, ž	81/4 83/4 83/4	18.00	24.00	5.00	
16.00			16.00	Ř	l ĭ∕‴	18.00		0.00	
			10.00		l	10.00 8.00 20.38 7.50 9.24 8.00 35.00 16.00 10.50		10.50	
175.60		40.00	910 80				90 50		
140.0U		40.87	216.50			168.60	22.50	15.50	

b Includes Paw Paw Rd., 4 miles.

#### 7.—TRAFFIC EARNINGS.

Š.		Passenger 1	Department.
Line No.	Railroads.	Passenger fares,	Express and Baggage.
128456789	aBay View, Little Traverse & Mackinac. Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City Alpena. Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette. Manistee. Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson.	\$14,528 56 122,074 25 967,017 41 6,197,502 98 450,014 92 48,913 04 174,834 11	
10 11 12	Detroit, Grand Haven & Milwaukee  Detroit, Lansing & Northern Saginaw & Western	94,936 79 473,607 98 389,611 18	4,676 00 2,159 78 29,125 10 15,166 27
18 14 15 16	Duluth, South Shore & Atlantic Flint & Pere Marquette. Manistee. Saginaw & Clare County	326,001 86 688,675 57	11,719 86 28,897 81
17 18 19 20	Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System. Detroit, Hillsdale & Southwestern.	819,947 98 4,650,653 59	32,841 15 464,981 28
21 22 23 24	Detroit, Monroe & Toledo Fort Wayne & Jackson. Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon Northern Central Michigan		
26 27 28 29	Marquette, Houghton & Ontonagon	12,150 36	757 88
80 81 82 83	Michigan Air Line Railway. Michigan Central System. Canada Southern Bridge. Detroit & Bay City.	329 82 31,297 72 4,184,236 74	2,118 61 883,606 06
84 85 86 87	Grand River Valley. Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R.		
10 111 123 134 15 16 17 18 19 20 12 22 24 25 27 28 29 28 38 38 38 38 38 38 38 38 38 38 38 38 38	Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan, Midhigan Air Line R. R. Michigan, Midhigand & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern Milwaukee A Rorthern Milwaukee Rorthern Milwaukee A Rorthern Milwaukee Rorthern Milwaukee	679,322 18 225,171 28 29,958 42	39,685 88 12,476 47 781 09
48 44 45 46 47 48 49	Milwaukee & Northern Mineral Range  aMuskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis. Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo & South Haven aTraverse City Wabash	1,318 90 35,441 10 169,179 04 84,963 10 46,410 33	2,279 85 12,846 21 405 83
50 51 52 53 54 55	Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo & South Haven.	48,410 33 133,980 49 12,047 82	961 98 8,208 00 950 91
58 54 55	Detroit, Union R. R. Depot & Station Co	352,801 38	9,000 00
	Commercial roads	<b>\$21,856,878</b> 70	\$1,548,769 68
1 2 8	Allegan & Lake Shore.  Bear Lake & Eastern  Buckley & Douglas.	\$404 10	
5 6 7 8	Allegan & Lake Store.  Bear Lake & Eastern  Buckley & Douglas.  Colfax & Big Rapids.  Crawford & Manistee River.  Grass Lake & Manistee River.  Hancock & Calumet.  Hoela & Torch Lake.  Hobart & Manistee River.	24,854 49	\$188 41
9 10 11 12	Hobart & Manistee River Lake County Manistee & Luther Mecosta Paris & Pere Marquette River	271 68	
18	Paris & Pere Marquette River  Ore and forest roads	197 46 \$25,727 68	\$188 41
	Total for all roads	\$21,382,606 38	\$1,548,958 04

a Included with G. R. & I. Rd.

#### TRAFFIC EARNINGS .- CONTINUED.

١	Total traffic	ent.	ight Departm	Fre	rtment.	enger Depa	Pass
Line No	earnings.	Total.	Other sources	Freights.	Total.	Other Sources.	Mails.
)   .	\$43,275 13 249,636 53 3,476,500 20 26,783,556 45 1,408,581 27	\$25,042 96 109,013 50 2,444,932 83 19,673,128 35 890,437 54	\$1,321 04	\$25,042 96 109,043 50 2,444,952 83 19,673,128 85 889,116 50	\$18,282 17 • 140,593 08 1,031,567 37 • 7,110,428 10 518,143 73		\$3,099 84 8,311 89 25,537 06 524,498 45 34,598 88
1	206,776 39 453,585 12 469,296 68 1,183,216 33 1,137,882 80	148,418 66 263,374 08 354,666 01 653,532 67 704,386 33	\$1,321 04 6,844 22 4,827 21 1,512 05	141,574 44 259,046 87 854,666 01 658,582 67 702,824 28	58,357 73 190,211 04 114,630 67 529,688 66 483,546 47	\$ 9,150 82	5,605 23 10,700 98 8,383 78 26,950 63 28,769 07
] ] 1	1,437,994 83 2,363,291 93	1,088,483 55 1,607,476 66	9,844 18	J,078,688 37 1,607,476 66	849,512 28 855,815 27		11,790 56 38,242 88
1	2,498,600 84 18,439,106 98	1,606,483 11 12,547,923 25	1,181 97	1,605,351 14 12,547,928 25	892,117 73 5,891,183 68		89,828 65 775,548 81
222							••••••
2 2 2	44,182 59 45,886 07	44,182 59 82,221 16		44, 182 59 82,221 16	18,664 91		756 78
33	28,618 21 160,393 81 14,093,754 06	28,283 <b>89</b> 121,144 94 9,309,987 19		28,288 39 121,144 94 9,809,987 19	329 82 39,248 37 4,783,766 89		5,882 04 215,924 10
333							
333							
4	3,180,681 04 974,963 02 99,569 16	2,420,330 51 716,779,37 68,039 15		2,420,830 51 716,779 87 68,089 15	760,850 53 258,183 65 31,530 01		41,342 47 20,535 90 790 50
4	4.431 80 10 ,861 68 321,350 93 81,497 29 98,879 14	3,112 90 63,579 65 127,987 08 43,045 59 48,519 07	60 00	3,112 90 63,579 05 127,987 08 43,045 59 48,459 07	1,818 90 42,282 63 193,368 85 38,451 70 50,360 07		4,562 18 11,838 60 8,062 77 2,987 76
	483,284 75 22,426 43	330,220 56 8,566 06	21,673 38	308,547 18 8,566 06	153,084 19 18,860 37		10,925 70 861 64
- -	1,250,848 67	872,865 99	17,751 06	855,114 93	377,982 68	2,904 08	18,277 82
	\$81,147,874 60	\$56,856,098 10 \$2,000.00	<b>\$64,465</b> 11	\$56,291,627 99	\$24,791,781 50	\$12,054 35	\$1,874,078 82
	\$8,000 00 20,123 20 17,978 38 7,383 33	\$3,000 00 19,719 10 17,978 33 7,383 33 12,346 91		\$3,000 00 19,719 10 17,978 38 7,383 33	\$404 10		
1 1 1 1	7,383 33 12,846 91 8,797 96 91,478 99 74,160 05 29,270 27 23,447 03 88,869 66	12,346 91 8,797 96 65,436 58 74,160 05	\$207 69	12,139 23 8,797 96 65,436 58 74,160 06	28,042 41	\$264.95	\$739 56
1		29,270 27 23,447 03 88,598 03		29,270 27 28,447 03 88 598 03	271 63		
1	8,869 82 22,652 70	8,869 82 22,455 24		8,869 82 22,455 24	197 46		
	\$409,878 25	\$ 81,462 65	\$207 69	<b>\$381,254 96</b>	\$26,915 60	\$264 95	<b>\$</b> 739 56
·   _	\$81,556,252 85	\$56,737,555 75	\$64,672 80	\$56,672,882 95	\$24,818,697 10	<b>\$12,8</b> 19 30	\$1,874,818 38

# MICHIGAN RAILROAD RETURNS.

### 8.-GROSS INCOME.

Line No.	Railroads.	Traffic Earnings. (Table 7.)	Receipts from Other Sources than Traffic.	Total Income, 1887.
1	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago & Grand Trunk Chicago & Grand Trunk Chicago & Northwestern Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee	a		
1 2 3	Chicago & Canada Southern	\$43,275 13 249,636 53	4910 11	\$43,275 13 250,455 64 3,478,696 20 27,140,725 24 1,426,070 50 206,800 05 453,585 12 475,936 80 1 194 309 38
0	Chicago, betroit & C. G. T. Junction	249,000 00	\$819 11 2,196 00 357,168 79	2 478 898 20
5	Chicago & Northwestern	26 783 556 45	357.168 79	27,140,725, 24
5 6	Chicago & West Michigan	1,408,581 27	17.489 23	1,426,070 50
7	Cincinnati, Jackson & Mackinaw	206,776 39	23 66	206,800 05
8	Cincinnati, Wabash & Michigan	249,030 53 3,476,500 20 26,783,556 45 1,408,581 27 206,776 39 433,585 12 469,296 68	0.040.10	453,585 12
9	Detroit, Bay City & Alpena	469,296 68	6,640 12	475,936 80
10 11	Detroit, Grand Haven & Milwaukee	1,183,216 33 1,137,882 80	11,093 05 9,277 19	1,194,309 38 1,147,159 99
12	Saginaw & Western	1,101,002 00		
12 13	Duluth, South Shore & Atlantic	1,437,994 83 2,363,291 93	27,694 40 70,244 85	1,465,689 23 2,433,536 78
14 15	Flint & Pere Marquette	2,363,291 93	70,244 85	2,433,536 78
15	Manistee			
16 17 18	Saginaw & Clare County			
17	Saginaw & Mt. Pleasant	2 498 600 84	42,484 99 401,855 74	2,541,085 83 18,840,962 67
19	Lake Shore & Michigan Southern System	18 439 106 93	401.855 74	18.840.962 67
20	Detroit, Hllsdale & Southwestern	10,100,100 00		zojozojosa or
21	Detroit, Monroe & Toledo			
22	Fort Wayne & Jackson			
23	Kalamazoo, Allegan & Grand Rapids			
24	Kalamazoo & White Pigeon			
20 21 22 23 24 25 26 27 28 29 30	Manistee Saginaw & Clare County Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System. Detroit, Hlisdale & Southwestern. Detroit, Monroe & Toledo. Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon Northern Central Michigan. Manistique Marquette, Houghton & Ontonagon. Marquette & Western Mason & Oceana. Michigan & Michigan	44 132 59	1,644 04 70,796 12	44.132.59
27	Marquette, Houghton & Ontonagon	45,886 07	1,644 04	47,530 11
28	Marquette & Western			
29	Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern	28,613 21		28,613 21
30	Michigan Air Line Railway	160,393 31	70 700 10	160,393 31
31 32	Michigan Central System	14,000,754 05	70,780 12	14,104,490 20
33	Detroit & Ray City			
34	Grand River Valley			
34 35	Jackson, Lansing & Saginaw			
36 37	Kalamazoo & South Haven			
37	Michigan Air Line R. R.			
38 39	Sacinaw Bay & Northwestern			
40	Toledo, Canada Southern & Detroit			
41	Milwaukee, Lake Shore & Western	3,180,681 04 974,963 02 99,569 16	47,783 38 1,174 97 54,212 81	3,228,414 42 976,137 99 153,781 97
42	Milwaukee & Northern	974,963 02	1,174 97	976,137 99
43			54,212 81	153,781 97
44	Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Traverse City Wabash	4,431 80		4 431 80
46	Pontiac Oxford & Port Austin	105,861 68	48 00	105,909 68
47	Port Huron & Northwestern	321,350 93 81,497 29	48 00 6,710 16 392 65	4,431 80 105,909 68 328,061 09 81,889 95
48	Saginaw, Tuscola & Huron	81,497 29	392 65	81,889 94
49	Saginaw Valley & St. Louis	98,879 14		99,784 25
50 51	Saginaw & Grand Rapids.	192 994 75	52,468 20	525 759 05
52	Toledo & South Haven	483,284 75 b 22,426 43	02,400 20	535,752 95 22,426 43
53	Traverse City	8		
54			10,080 37	1,260,929 04
55	Detroit, Union R. R. Depot & Station Company		171,880 85	171,880 85
	Commercial reads	201 147 974 60	\$1,364,973 79	\$82,512,848 39
	Commercial roads	\$81,147,874 60	\$1,004,910 19	\$00,010,040 00
	ORE AND FOREST ROADS.			*
1	Allegan & Lake Shore	\$3,000 00		\$3,000 00 22,618 67
2	Bear Lake & Eastern	20,123 20	\$2,495 47	22,618 67
3	Buckley & Douglas	17,978 33 7,383 33 12,346 91 8,797 96		17,978 33
5	Colfax & Big Rapids.	19 246 01		7,383 33 12,346 91 8,797 96
6	Grace Lake & Manistee River	8 707 96		8 797 96
7	Hancock & Calumet	91,478 99		91,478 99
8	Hecla & Torch Lake	74,160 05		91,478 99 74,160 05
9	Hobart & Manistee River	29,270 27		29 270 27
10	Lake County	23,447 03		23,447 03
11	Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Colfax & Big Rapids Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River Lake County Manistee & Luther Mecosta	88,869 66		88,869 66 8,869 82
12 13	Mecosta Paris & Pere Marquette River	8,869 82 22,652 70		22,652 70
10	Tails & Tele Marquette Mivel	~~,00% 10		May 000 10
	Ore and forest roads	\$408,378 25	\$2,495 47	\$410,873 72
	Total for all roads	\$81,556,252 85	\$1,367,469 19	\$82,923,723 11

<sup>•</sup> Included with Grand Rapids & Indiana. b Including Paw Paw.

## GROSS INCOME.-CONTINUED.

Proportion of Total Income for Michigan.	Michigan's Proportion for Previous Year.	Increase of Income, 1887.	Decrease of Income, 1887.	Taxable Income for Michigan, 1887.	Taxable Income for Michigan Previous Year.
	\$5,585 16		\$5,585 16 2,205 21	\$7,244 87 40,291 96 250,455 64 2,296,845 91	\$5,600 91
\$40,291 96	42,497 17 287,045 58		2,205 21	40,291 98	42,497 17 237,045 53
250,455 64	237,045 53	\$18,410 11 288,723 81		250,455,64	237,045 53
	2.00K.122.10	288,723 81		2,296,845 91	9 008 199 10
2,110,549 66 1,307,351 87 198,846 20	1,969,692 90 1,288,256 01	14( ,856 76 19,095 86		2,810,837 89	2,647,760 17 1,279,766 05 221,176 38 79,058 73
1.307.351 87	1 288 258 01	19.095.88		1 906 817 08	1 970 764 05
198 848 90	222,236 90	10,000 00	23,390 70	1,296,817 08 198,846 20	1,215,100 UD
92,151 78	79,058 80	18,092 93	20,000 10	180,010 &0	221,110 00
475 098 90	18,000 00	10,000,00		92,151 73	79,058 78
475,986 80	242,061 89	283,874 91		469,295 68	242,061 89
1,194,309 38	1,244,038 44		49,724 06		
1,147,159 99	1,226,536 20		49,724 06 79,376 21	1,147,159 99	1,226,536 20
*************					
1,465,689 28	c 294,884 18	1,170,855 05		416,759 67	294,884 18
2,483,536 78	2,077,245 50	356,291 28		2,863,920 09	2,040,654 16
2,228,571 80 4,333,558 40	1,822,827 41 3,704,104 24	406,244 89 629,454 16	1	2,051,750 41	1,808,642 86
4,333,558 40	8.704 104 94	629 454 1A		-,, 11	~1000102W 00
-,,	ONIOZITOZ WZ	,22. 10		88,642 73	48,051 25
	· · · · · · · · · · · · · · · · · · ·			489 492 78	390 058 54
				462,483 76 97,831 38	000,000 04
				#1,001 00	80,010 18
•••••				152,887.75 103,586 24	98,010 19 141,144 56 96,145 19 108,407 61
				103,586 24	96,145 19
				108,820 76	108,407 61
44,132 59	4,572 08	39,560 56		44,132 59	4,578 08 926,774 88
4 47,530 11	988,215 02		935,684 91	1,016,378 24	926,774 38
				49,466 14	56,440 64
28,613 21		28,613 21 5,200 81		28,613 21	
160,393 81	155,192 50	5,200 81		160,393 31	155,192 50
7,792,611 20	6,958,712 27	883,898 93		100,000 01	100,100 00
7,100,011 00	0,000,112 21	000,000 00		1,728 17	1.042 79
•••••				718,443 71	645,169 49
				110,220 11	O-10,100 49
•••••				1 400 000 70	1 000 440 40
				1,426,082 56	1,233,448 62
				54,106 81 142,480 46 6,507 48	1,233,448 62 57,287 88 141,594 07
				142,480 48	141,594 07
			1	6,507 48	604780
				84,086 70 463,573 85 534,230 61	59,061 84 879,157 96 816,221 44
				463,573 35	879,157 96
584,280 61	316,221 44	218,009 17	1	534,230 61	316,221 44
52,498 50		52,498 50		52,498 50	
153,781 97	81,244 65	52,498 50 72,537 32		52,498 50 108,681 97	81,244 65
	5,902 35 3,558 85 100,982 06	1,	5,902 35	123 392 78	5,902 35
4,431 80 105,909 68	2 559 25	873 45	1 2,000 00	4,481 80 105,909 68	5,558 35
ากรี ตั้งดี คือ	100 000 00	4 077 89		105 000 88	100,932 06
828,061 09	218 00E 0E	4,977 62 12,076 04		328,061 09	915 095 05
01 000 04	315,985 05	12,010 01		01.000.04	815,985 05 59,856 13
81,889 94	60,342 39	21,547 55		81,889 94 99,784 257	98,830 10
99,784 25	90,131 56	9,653 69		94,784 25 /	90,131 28
520,984 97	369,664 12	151,820 85		520,981 97	369,664 12
22,426 43	90 897 41	1,599 03		22,426 43	20,827 51
	41.880 62		41,880 62 126,993 71	22,426 48 42,917 65	41,880 62 481,624 99
354,631 28	481,624 99	i	126,993 71	854,631,28	481,624 99
171,880 85	41,880 62 481,624 99 135,787 61	36,143 24		171,880 85	185,737 61
\$80,079,047 14	\$26,589,881 85	\$4,760,408 22	\$1,270,742 98	\$21,152,942 52	\$18,700,987 22
<b>63 UU</b> U UU	\$8,000 00			\$8,000 00	<b>\$</b> 3,000 00
\$3,000 00 22,618 67 17,978 33	14,883 97	67 734 50		20,123 20	14,883 97
17 072 99	16,107 49	1 270 04		17 079 99	16,107 49
7 262 00	10,101 49	\$7,734 70 1,870 84 7,383 83		17,978 33 7,383 38 12,346 91	10,101 40
1,000 00	10 FRF 04	1,770 94		1,000 00	10 878 07
7,383 33 12,246 91 8,797 96 91,478 99 74,160 05	10,575 94	1,110 84		12'040 AI	10,575 97
9,181 80	6,812 24	1,985 72 8,489 50		8,797 96 91,478 99 74,160 05	6,812 24
V1,478 99	82,989 49	J 8,489 50		y1,478 99	81,128 61
74,160 06	82,989 49 75,221 12 28,548 70		\$1,081 07	74,160 06	81,128 61 75,221 12
29,270 27	28,548 70	5,721 57		29,270 27	23,548 70
29,270 27 28,447 08	16,101 88	7,345 65		23,447 03	16,101 38
AN AND MK	60,838 10	28,031 56		89,849 66	60,838 10
8,869 83	18,346 75	l	4,476 98	8,869 82	13.346 75
8,869 83 22,652 70	80,192 84		4,476 98 7,539 64	22, 152 70	80,112 84
\$410,873 72	\$858,617 55	\$70,838 81	\$18,077 64	\$409,378 25	\$351,756 67
				<del></del>	1
\$30,489,920 86	\$26,942,999 40	\$4,830,742 03	\$1,288,820 57	\$21,562,820 77	\$19,052,693 89

<sup>•</sup> Earnings under old organization. d For 1% months only,

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### 9.-EXPENSES.

Line No.	Railroads.	Maintenance of Way and Buildings.	Maintenance of Motive Power and Cars.	Conducting Transportation.
1 2 8 4 5 6 7 8 9 10 1 12 3 14 15 6 17 8 19 10 11 12 3 14 25 6 27 22 20 3 13 23 24 25 6 27 22 20 3 13 23 24 25 6 27 22 20 3 13 23 24 25 6 27 22 20 3 13 23 24 25 6 27 22 20 3 13 25 24 25 6 27 22 20 3 13 25 24 25 6 27 25 20 20 3 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette System Manistee	\$19,673 70 46,612 43 359,818 98 8,388,243 09 256,804 64 b 38,725 13 124,179 73 50,571 87 171,784 47 164,725 81	\$2,178 46 68,489 17 864,469 27 2,886,164 96 228,004 95 17,187 10 43,025 74 14,566 58 119,865 74 110,729 87	\$20,930 11 99,527 68 1,511,345 78 8,390,840 49 461,025 63 61,755 88 122,630 32 162,110 09 490,922 46 327,376 41
13 14 15	Duluth, South Shore & Atlantic Flint & Pere Marquette System Manistee	261,584 41 342,639 62	180,400 58 801,648 39	392,387 66 807,501 96
17 18 19 20	Duluth, South Shore & Atlantic Flint & Pere Marquette System  Manistee Saginaw & Clare County Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan  Manistique Marquette, Houghton & Ontonagon Marquette & Western Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana	462,480 88 2,079,084 61	292,540 28 1,995,012 71	750,591 06 5,648,350 55
22 23 24 25	Fort Wayne & Jackson.  Kalamazoo, Allegan & Grand Rapids.  Kalamazoo & White Pigeon.  Northern Central Michigan.			
26 27 28	Manistique. Marquette, Houghton & Ontonagon	4 70 10,865 90	829 17 12,809 54	18,797 81 17,519 24
30 31 32	Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge	1,292 50 47,126 44 2,852,743 19	14,147 02 14,147 944 88	13,781 86 61,162 61 4,607,099 82
84 85	Detroit & Bay City. Grand River Valley Jackson Lansing & Saginaw			
36 37	Kalamazoo & South Haven Michigan Air Line R. R.			
89 40 41	Michigan Midland & Canada Saginaw Bay & Northwestern Toldo Canada Southern & Detroit			
41 42 43 44 45	Milwaukee, Lake Shore & Western. Milwaukee & Northern Mineral Range Muskegon Grand Ranida & Indiana	537,208 00 140,779,57 8,488 33	209,697 93 89,482 27 5,272 60	948,262 50 824,817 25 80,331 59
46 47 48	Milwaukee & Northern Mineral Range. Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern. Saginaw, Tuscola & Huron Saginaw Valley & St. Louis. Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City Wabash	1,738 44 26,204 05 72,829 88 19,067 27 13,738 31	281 24 10,659 58 20,726 84 7,095 75 18,394 55	3,120 81 82,414 80 95,104 79 27,821 00 82,741 88
50 51 52 58	Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City	46,661 48 1,838 00	51,418 89 112 53	188,516 06 4,405 37
54 55	Wabash Detroit, Union R. R. Depot & Station Co	205,561 20	146,707 58	587,082 80
	Commercial roads	\$11,210,522 11	\$8,078,138 88	\$26,147,284 07
1 2 8	Allegan & Lake Shore	\$600 00 1,011 87 5,758 78	\$600 00 8,272 13 1,873 84	\$1,200 00 6,3:8 87 8,849 85
1 2 8 4 5 6 7 8 9 10 11 12 13	ORE AND FOREST ROADS.  Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Colfax & Big Rapids Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River Lake County Manistee & Luther Mecosta Paris & Pere Marquette River	1,104 14 8,538 81 11,674 13 5,750 00 11,767 51 3,517 64 4,947 70 1,878 00 4,073 48	3,640 88 690 64 10,963 96 9,840 15 3,268 75 8,517 64 10,878 93 1,378 99 2,051 09	7,059 88 3,846 07 30,460 27 56,613 27 16,343 76 7,754 34 24,656 03 8,494 27 6,080 74
-	Ore and forest roads	\$55,516 51	\$51,418 70	\$177,686 85
-	Total for all roads	\$11,266,038 62	<b>\$8,129,557 58</b>	\$28,824,970 92

a Included with Grand Rapids & Indiana. b For 10 months only.



### EXPENSES .- CONTINUED.

General ixpenses, Includ- ing Taxes.	Total Expenses and Taxes.	Proportion of Expenses and Taxes for Mich.	Same for Michigan, Previous Year.	Increase. 1887.	Decrease. 1887.
\$7,878 85 14 558 44	\$50,660 62 224,187 73 2,515,884 76 16,010,266 61 1,084,629 82	\$17,168 49 224,187 79	\$51,598 81 204,916 57 1,522,605 93 1,113,085 84 940,126 82	\$19,271 15	\$4,425 82
14,558 44 289,750 73 1,873,018 07 108,693 80	2,515,884 76	1,684,965 01 1,245,009 57 978,000 23	1,522,005 98	112,349 08 131,924 23	
1,873,018 07	16,010,266 61	1,245,009 57	1,113,085 84	181,924 23	
108,693 80	1,084,629 82	978,000 23	940,126 82	85,878 91	
28,942 25 52,760 65	198/011 90	134,241 69	162,478 49 59,066 56	11 768 10	28,231 80
30,618 25	848 596 44 268,866 79	70,821 69 263,866 79 863,615 92	123,860 98	11,755 18 140,005 86	
81,043 25	868,615 92	868,615,92	859,989 74	3,676 18	
108,282 43	696,114 55	696,114 55	727,818 84		81,704 29
			l		
108,449 81	892,822 46	893,822 46	248,699 78	644,122 68	
219,143 85	1,670,933 82	1,670,983 82	1,415,545 11	255,388 71	
• • • • • • • • • • • • • • • • • • • •					· • • • • • • • • • • • • • • • • • • •
190,540 10	1,666,101 77	1.465.858 14	1,207,155 40	258,702 74	
1,812,850 80	11,029,798 17	1,465,858 14 2,558,412 67	2,457,761 74	258,702 74 100,647 98	
•••••		•••••			
180 18	19,761 86	19,761 86	4,071 04	15,690 32	
5,915 25	46,609 98	19,761 36 46,609 93	4,071 04 501,748 84		455,133 41
************		•	- <i></i>		
1.760 77	21,019 94 127,062 61 9,875,246 50	21,019 94 127,062 61 5,997,598 43	115,510 43	21,019 94	·
4,626 54 c 1,465,459 16	0 975 948 50	121,002 01 K 007 509 49	4,958,008 64	11,552 18 1,089,594 79	· • • • • • • • • • • • • • • • • • • •
C 1'409'408 TO	8,010,020 00	0,001,000 30	2,000,000 01	1,000,004 10	
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• • • • • • • • • • • • • • • • • • • •	•••••				
245,189 23	1.940.357 66	284,745 66	116,388 96	148.356 70	
80,824 29	635,903 38	30.691 82		30,691 82	
80,824 29 12,083 69	1,940,357 66 635,903 38 56,121 21	30,691 82 56,121 21	40,722 88	148,356 70 30,691 82 15,398 83	
		1			
195 64	5,336 18	5,886 18	8,859 90	1,476 23	000 71
14,805 57 25,092 06	83,588 45 218,758 57	919 759 57	84,452 16 214,822 91	• • • • • • • • • • • • • • • • • • • •	868 71 569 34
7,128 77	61.112 79	83,583 45 213,758 57 61,112 79	46,980 17	14,132 62	000 01
16,691 93	76,566 17	76,566 17	82,282 81		5,716 64
· • • • • • • • • • • • • • • • • • • •		. <b></b>	l . <b></b>	************	
106,009 44	842,605 87	831,141 60	216,406 77	114,734 83	
2,162 71	. 8,518 61	8,518 61	14,894 51		5,875 90
148.851 25	1.038,202 83	901 242 22	901 917 OK	•••••	86,878 67
88,967 69	86,967 69	291,343 38 86,967 69	381,217 25 65,996 08	20,971 61	an'ata 91
\$6,679,374 45	<b>\$</b> 62, <b>0</b> 75,819 51	\$20,468,948 10	\$17,941,004 91	\$8,147,887 47	\$319,899 28
****					
\$600 00	\$1,000 00	\$3,000 00	\$3,000 00		
1,031 67 340 83	11,644 04 16,817 74	\$3,000 00 11,644 04 16,317 74	8,648 18 17,596 07	<b>\$2,995</b> 86	\$1,278 83
ONU 02	7,059 38	7 060 28	T1,088 01	7,059 38	91,210 60
1.490 98	6.235 50	7,059 38 6,235 50 8,797 96 62,862 22	7,252 48		1,016 96
1,490 98 732 44	8,797 98	8,797 96	6.812 24	1,985 72	
9,763 86	8,797 96 62,862 23	62,862 22	6,812 24 51,988 54 75,221 12	10,873 68	
1 956 63	74,160 05	1 14.10U UD	75,221 12		1,061 07
1,807 50	32,687 52	82,687 53	22,660.96	10,026 56	
5,638 04 5,313 26	20,427 66 45,695 92	20,427 66 45,695 92	14,500 00 29,812 63	5,927 68 15,883 29	
227 40	11,981 88	11,931 36	10 272 20	1,068 06	
1,640 13	13,845 44	18,845 44	10,878 20 13,956 83	4,000 00	111 89
\$30,042 78	\$314,664 79	\$314,084 79	\$262,822 83	<b>\$</b> 55,810 <b>2</b> 1	\$3,467 75
	\$013,004 18	\$012'004 19	<b>3</b> 000,000 00	403/010 PT	#U,101 10

c Includes bridge tolls and terminals, \$517,526.26.

# 10.—ANALYSIS OF EARNINGS AND EXPENSES.

- 1			Traffic	Earning	В.
Line No.	Railroads.	Miles of Road Operated.	Total.	Passenger.	Per train
1 2 8 4 5 6 7 8 9	Bay View, Little Traverse & Mackinac. Chicago & Canada Southern. Chicago & Grand Trunk Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan. Olneinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee Saginaw & Clare County Saginaw & Clare County Saginaw & Mr. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Hillsdale & Southwestern Detroit, Hillsdale & Southwestern Detroit, Hillsdale & Southwestern Detroit, Hillsdale & Southwestern Detroit, Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Manistique Marouette, Houghton & Ontonagon	8	248,275 13 249,636 53 3,476,500 20 26,783,556 45 1,408,5812,27 206,776 39 458,685 12 469,296 68 1,183,216 33 1,187,882 80	90 37 0 52 1 11 1 09.24 0 81 0 71 1 74 1 01 0 86,88	\$0.76 0.40 1.19 1.42 1.56 1.17 1.28 1.25 1.25 1.28 1.72.84
11 12 18	Saginaw & Western.  Duluth, South Shore & Atlantic.  Flint & Pere Marquette.	351.38 363.57	1,437,994 88 2,863,291 93	1 07.20 0 89	1 39 1 31
15	Manistee				
145 161 178 119 221 222 222 223 223 224 225 227 228 229 231 232 232 233 244 255 257 258 259 259 259 259 259 259 259 259 259 259	Saginaw & Mt. Pleasant.  Grand Rapids & Indiana.  Lake Shore & Michigan Southern System.  Detroit: Hillsdale & Southwestern.	558.51 1,341.38	2,498,600 84 18,439,106 93		1 37 1 86
21	Detroit, Monroe & Toledo				
23	Kalamazoo, Allegan & Grand Rapids.				
24 25	Northern Central Michigan	14.00	44 129 50		
26 27	Marquette, Houghton & Ontonagon	1	44,132 59 45,886 07	0 79	1 13.40
28 29 30	Manistique  Marquette, Houghton & Ontonagon  Marquette & Western  Mason & Oceana  Michigan Air Line Railway  Michigan Central System  Canada Southern Bridge.	21,28 105.59 1,587.14	28,613 21 160,393 31 14,093,754 08	0 19 1 31	0 60
31 32	Canada Southern Bridge	1 -			
33	Detroit & Bay City				
35	Jackson, Lansing & Saginaw.				
36   37	Michigan Air Line R. R.				
38	Michigan Midland & Canada Saginaw Bay & Northwestern				
40 41 42	Canada Southern Bridge.  Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range	592.28 326.66 17.00	3,180,681 04 974,963 02 99,569 16	0 94.3 0 60.50 0 66	2 (2 1 91 2.24
44	Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern	20.00	4,431 80	• • • • • • • • • • • • • • • • • • • •	
46	Pontiac, Oxford & Port Austin	100.20 218.00	105,861 68	0 46	1 21 0 85.06
47 48	Port Huron & Northwestern	66.57	105,861 68 821,850 93 81,497 29	0 46 0 79.09 0 42 0 73.52	0 98
49	Saginaw Valley & St. Louis	45.10	90,019 14		
51	Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City Wabash Detects Union R. R. Derect & Station Company	181.39 36.60	483,284 75 22,426 48	0 63.01	1 56.73
58	Traverse City	885.80	1,250,848 67		
54 55	Detroit, Union R. R. Depot & Station Company	3.34			
-	Commercial roads	12,229.22	\$81,147,874 60	\$1 14.17	\$1 53.46
1	Allegan & Lake Shore	5.00 17.00	8,000 00	} 	
2	Bear Lake & Eastern	17.00 8.00	8,000 00 20,128 20 17,978 83		\$2 79 0 85.77
4 5	Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Colfax & Big Rapids Crawford & Man'stee River Grass Lake & Manistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River Lake County Manistee & Luther Mecosta	6.00	7,883 83 7,883 83 12,846 91 8,797 96 91,478 99 74,160 06 20,270 27		1 42
5	Grass Lake & Manistee River	10.00 8.00	8,797 96		0 68.75
7	Hancock & Calumet	20.36	91,478 99	<b>\$</b> 0 61	1 72 1 76
8	Hobart & Manistee River	7.50 9.24	29,270 27		1 82
10 11	Lake County	11.00 47.50	23,447 08 88 869 66		
12 13	Macoeta.  Paris & Pere Marquette River	10.00	88,869 66 8,869 82 22,652 70		0 35 48
13	Paris & Pere Marquette River	16,00	22,652 70		
-1	Ore and forest roads	\$175.60	\$408,878 25	\$0 71	\$1.85.32

a Included with the Grand Rapids & Indiana.
1 Operated but two months and leased to D. S. S. & A. R'y Co



# ANALYSIS OF EARNINGS AND EXPENSES.—CONTINUED.

Traffic F	Carnings.	Ope	rating Ex	penses.		Not per Road Op	erated.	Net	Net
Mile. Total.	Per Mile of Road Operated.	Total.	Per Mile of Road Operated.	Per train Mile.	Percent- age of Earnings.	Sarplus.	Deficit.	(Per Train Mile.	Deficit Per Train Mile.
90 58 0 92 1 14 1 38,21 1 17 0 68							-255-52-		
<b>9</b> 0 58	\$840 16 4,204 76 10,247 27 6,569 60 8,402 86 1,132 42 2,759 03 2,151 45 6,319 10 4,243 14	\$50,660 62 224,187 72 2,516,884 76 16,010,286 61 1,064,639 32 13,611 36 348,596 44 263,896 79 863,615 92 606,114 55	\$749 42 8,776 11 7,414 88 3,875 40	\$0 62 0 82 0 82 0 78,58 0 88 0 78,70 0 61' 0 88 0 76,79	117	8442 45	\$57 59	•0 10	
0 98	4,204 76	224,187 72	7 414 99	0.82	89.51 72.31	2.839 50		\$0 10 0 82 0 54.63 0 29	
1 14	8 580 80	2,010,001 70 16 010 986 61	3.875 40	0 78.58	58.99	2,839 50 2,694 20 844 07		0 54.63	
1 17	8,402 86	1.064.629 32	2,571 94 894 94	0 88	58.99 75.29 79.02	844 07		0 29	
1 17 0 68 0 95.9 1 08 1 14 1 25.52	1,182 42	189,611 86	894 94	0 54	79.02	2,839 50 2,694 20 844 07 287 63		0 14 0 29.2 0 47 0 82	
0 95.9	2,759 03	848,596 44	2,120 41	0 78.70	76.85	638 61 941 78		0 23.8	
1 08	2,151 45	268,866 79	1,209 67	0 81	79.21	1.749 70		0.82	
1 14	0,819 10	808 114 55	2,120 41 1,209 67 4,569 40 2,595 80	0 76.79	76.85 56.28 72.31 60.68	638 61 941 78 1,749 70 1,681 93		0 49.76	
	1,210 11		l .			•			
1 29.6 1 14	4,085 21	892,822 46	2,536 48 4,595 90	0 80,50	60	1,627 63 2,004 10		0 51.60 0 86	
1 14	6,500 00	1,670,933 82	4,595 90	0 81	68.66	2,004 10		U 200	
									1
1.25	5,294 09	1,666,101 77 11,029,796 17	8,530 18 8,222 72	0 88 1 09	65.70 58.59	18 42		0 44	
1 25 1 82	18,746 37	11,029,798 17	8,222 72	1 09	58.59	5,726 83		0 76	
				•••••					
				•••••					
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• • • • • • • • • • • • • • • • • • •						-1-210-00-			
02.10 1 00.40	8,152 88 294 14	19,761 86 46,609 98	1,411 58	0 94 1 01.90	45 98	1,740 80 5 88		1 16 0 02	i
1 00.40	294 14		298 30	1 01.90				1	
0 16	1 844 60	21,019 94 127,062 61 9,875,246 50	987 77 1,204 40 6,424 48	1 59	78.46 79.21 69.72	856 83 815 92 2,790 41		0 57.50	
2 16 0 79 1 41	1,844 60 1,520 82 9,214 88	127,062 61	987 77 1,204 40	1 59 0 68	79.21	815 92		0 16 0 43	
ĭ 41 '	9,214 88	9,875,246 50	6,434 48	0 99	69.72	2,790 41		0 43	
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•••••									
1 60	5.870 28	1,940,357 66 635,908 38 56,121 21	8,275 97 2,228 11	0 98.9 0 79 0 71	61.1	2.094 15 1,192 13 8,091 81		0.62	
1 22	5,870 28 8,424 56 5,857 01	685,9U8 88	2,228 11	0 79	65 51	1,192 13		0 42.50	
1 59 1 22 1 27	5,857 01	56,121 21	8,801 25	0 71	51	8,091 81		0.61	
	ł	5,336 13	266 81	1 20.40			45 21		
	1 050 10	00 800 AK	L MOK OLA	0 57.72	78.92	223 26		0 15.42	
0 73.11 0 82 0 60.44 0 85.52	221 59 1,059 10 1,474 08 1,224 28 2,192 44	218,758 57	990 52 918 02 1,697 70	0 57.72 0 54.08 0 45.10 0 66.22	78.92 65.15 74.68 76.78	223 26 524 84 312 11 514 81		0 29.02 0 15.83	
0 80.44	1,224 28	61,112 79 76,566 17	918 02	0 45.10	74.68	812 11		0 15.33	
0 85.52	2,192 44	76,566 17	1,897 70	0 66.22	76.78	514 81		0 20,08	
	2,670 08	040 602 07	1 000 OK	0 7K KR	63.94	1,067 12		0 42.58	
1 06,55 0 60,95	612 74	842,605 87 8,518 61	1,892 85 260 06	0 75.58 0 25.49	42.44	852 66		0 84.56	
V 00,00					1				
	4,483 88	1,038,202 33	3,721 16		82	762 17		• • • • • • • • • • • • • • • • • • • •	
40.10	\$6,635 57	\$51,988,351 82	\$4,251 16	\$0 80,88	64,62	\$2,384 41		0 59.50	
\$1 42.18	40,000 01	Sor'soc'onr on	VI,201 10	<b>30 00.00</b>		<b>4</b> -4002 22			
				1	1	:	:	1	i
	\$600 00	<b>\$3,000 00</b>	<b>\$600 00</b>	1-2:-2:	100			\$1 17	;
2 79 0 85.77	2,495 47 2,247 29	\$3,000 00 11,644 04 16,317 74	9 030 70	\$1 61 0 77.85	55 90.76	\$470 96 207 57 32 40 611 14		07.94	• • • • • • • • • • • • • • • • • • •
	729 22	7.050.88	705 93	1	95.61	32 40		l <b></b>	
1 49	1.284 69	6,235 50	623 55	0 71.66 0 69.75	95.61 50.50 100	611 14		0 70.83	- <b></b>
1 49 0 68.75 1 14 1 76 1 82	2,247 29 738 38 1,284 69 1,099 74 4,493 07 9,888 00 8,167 77 2,131 55	7,059 88 6,236 50 8,797 96 62,962 22 74,160 05 82,687 52 20,427 66	1,099 74	0 69.75	100	J		0.24	ļ
1 14	4,493 07	62,862 22	3.087 53	0 78 1 76	35 100	1,405 54		0 85	,
1 76	9,888 00	74,160 (16	2 527 A1	2 04	211		\$369 84		<b>\$0 20</b>
1.9%	9 191 KK	20.427 AA	1.857 08		87	274 47 728 62			
	1.499 91	45,695, 92 11,981, 36 13,845, 44	771 29		51.40	728 62			
0 85.48	1,499 91 1,048 51	11,981 36	1,198 14	0 47.60	134	550 46	149 63	·····	0 12 12
	1,415 80	13,845 44	\$600 00 646 89 2,039 72 705 93 623 55 1,099 73 3,087 53 9,888 00 3,537 61 1,857 06 771 29 1,193 14 865 34		61.12	DOU 46			
	<b>22</b> .325 83	\$314,664 79	\$1,792 OU		74.48	\$533 33			
\$1 67	\$2,040 00	<u> </u>	<u></u>						<b>-</b>
		\$52,303,016 61	\$4,216 34	90 90.09	64.15	\$2,358 24		0 50.89	:

<sup>?</sup> For ten months only, M. & O, Receivership not included.

### MICHIGAN RAILROAD RETURNS.

## 11.—TRAIN MILEAGE AND TRAFFIC.

Bay View, Little Traverse & Mackinaco.	ا ه		т	rain Mileage.	
Chicago & West Michigan   188,198   199,488   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486   129,486	Line No.	Railroads.	Passenger trains, Milos,	Freight trains. Miles.	trains carning
Saginaw & Clare County	. 8 7 8 9	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern. Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern	48,754 139,853 928,250 6,504,959 633,198 152,861 267,445 65,744 524,554 498,986	133,449 2,126,721 13,864,568 569,483 106,039 205,201 367,462 512,300	81,705 270,802 3,054,971 20,873,827 1,907,681 258,900 472,646 433,205 1,096,854
Commercial roads	12 18 14	Saginaw & Western Duluth, South Shore & Atlantic. Flint & Pere Marquette Manistee	826,019 845,064	782,782 1,221,684	1,108,801 2,0 <b>08,69</b> 8
Commercial roads	16 17 18 19	Saginaw & Clare County Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System. Detroit, Hillsdale & Southwestern.	822,771 8,871,318	1,173,245 6,742,811	1,995,016 10,114,129
Commercial roads	21 22 23 24	Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon			
Commercial roads	25 26 27 28	Northern Central Michigan Manistique Marquette, Houghton & Ontonagon Marquette & Western	17,297	28,400	21,000 45,697
Commercial roads	29 30 31 33	Mason & Oceana . Michigan Air Line Railway . Michigan Central System . Canada Southern Bridge .	65,824 3,658,108	14,672 136,785 6,330,212	14,672 202,609 9,983,320
Commercial roads	88 84 85 86	Detroit & Bay City. Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven			
Commercial roads	87 88 39 40	Michigan Air Line Kairoad Michigan, Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit.	905 067		
Commercial roads	41 42 48 44	Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana Ontoneon & Burle River	425,565 30,315	875,715 48,011	801,280 78,328
Commercial roads	46 47 48 49	Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw Tuscola & Huron Saginaw Valley & St. Louis	65,824 241,997 91,749 68,496	79,474 149,472 48,788 47,127	144,798 391,469 135,497 115,622
Commercial roads	50 51 52 53			217,110 87,843	453,598 37,848
ORE AND FOREST ROADS.    Allegan & Lake Shore	54 55 ——	Detroit, Union R. R. Depot & Station Co,		98 070 909	87 909 70K
Mecosta   23,000   25,		ADD 1 WD WARDS DO 1 DA	1 ' '		91,000,100
Mecosta   25,000   25,11   12   Paris & Pere Marquette River   c   32,181   33,181	1 2 3 4 5 6	Allegan & Lake Shore. Bear Lake & Eastern. Buckley & Douglas Crawford & Manistee River. Grass Lake & Manistee River. Hancock & Calumet. Hacke & Torch Lake	87,898	· 28,200 8,693 12,800 42,589	28,200 8,698 12,900 80,485 42,155
<u> </u>	10 11	Hobart & Manistee River Lake County Manistee & Luther Mecosta	C	16.000 25,000	25,000
Ure and forest roads	12	Ore and forest roads.	i	205,618	32,181 243,514
				ļ	58,052,210

a Included with Grand Rapids & Indiana. b Includes Paw Paw.

### TRAIN MILEAGE.—CONTINUED.

Passenger Traffic.  Through passengers. Number. Local passengers. Number. Number. Total passengers. Number. Number. Passengers carried 1 mile. Passengers carried 1 mile. Number. Number. Number. Number.										
Through passengers. Number.	Local passengers. Number.	Total passengers. Number.	Total passengers. previous year. Number.	Passengers carried 1 mile, Number.	Passengers carried l mile previous year. Number.					
		40.040	40.001	**************************************	***************************************					
30,788	46,042 126,566 517,475 10,891,893 581,249	48,042 157,354	46,921 147,299 546,509	538,968 4,768,215 54,665,416 266,543,852 17,385,053	563,191 4,532,375					
109,435 71,015 3,962	517,475	157,354 626,910 10,462,908 585,211	548,809	54,665,416	50.737.260					
71,015	10,891,893	10,462,908	9,480,404	266,543,852	251,995,968 18,096,944					
5,838			76,953		2 440 937					
5,838 966	285,528	286,494	253,261	6,746,137	2,440,937 2,298,968					
	114,245 598,588	114,245	80,333	3,372,925	2,155,948 18,710,171					
5,045 16,100	578,917	296,494 114,245 596,633 590,017	76,260 76,963 258,251 80,333 592,223 587,724	6,746,187 8,872,925 19,185,375 15,201,855	14,240,745					
18,331 9,531	298,792 896,931	312,123 906,462	58,415 852,676	9,208,234 25,395,540	2,556,837 24,912,050					
97,482 108,107	971,887 8,644,788	1,069,869 3,752,840	948,798 8,725,707	88,823,825 206,761,459	27,468,079 191,593,185					
·····										
• • • • • • • • • • • • • • • • • • • •	••••••									
		15 800	100 000							
909	14,818	15,722	167,957	310,810	3,848,155					
	802	802		12,030						
98 124,857	78,588 2,638,104	78,631 2,762,961	77,991 2,592,741	12,030 1,158,909 182,492,458	1,082,240 171,817,751					
	••••••									
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·			•••••							
27,001 11,708	581,829 238,792 102,746	558,880 250,500 102,746	396,644 120,100	20,571,065 8,990,818 751,928	16,064,836 697,210					
	102,120	100,120	120,100	191,860	013,190					
	70.405	71 447	80.597	1 510 597	1 408 107					
18.401	70,495 200,806	219,206	222,189	6.961.481	6 341 074					
952 18,401 3,101 892	59.670	71,447 219,206 62,771	69,537 222,189 47,339 87,427	1,519,587 6,961,481 1,574,287 1,694,057	1,485,187 6,341,074 1,025,920 1,500,270					
892	96,006	80,080			1,500,270					
280	152,219 25,099	152,479 25,099	110,202 b 39,486	5,017,029 376,845	2,781,029 b 249,339					
	25,099	25,099	ь 39,486	376,845	ъ 249,339					
					***************************************					
			•••••							
664,769	28,810,396	23,975,105	21,938,415	895,521,660	818,625,059					
	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •					
	00 414	82,614	32,024	732,294						
	82,614	52,014	82,024	76Z,Z94	295,621					
			480		11 500					
			400		11,580					
				***************************************						
	82,614	82,614	82,484	782,294	807,181					

c No mileage traffic returns for 1887.

#### 11A.-TRAFFIC.-CONTINUED.

			Pa	seenger Trave
TABLE ING.	Railroads.	Average distance traveled by each passenger, miles.	Average fare paid by each passenger.	Average through rate per mile.
1	Bay View Little Traverse & Mackinac			
Ž	Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction	11.70	90 81.55	
8	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Juluth, South Shore & Atlantic Flint & Pere Marquette	80 87.20	0 77.50	902.41
5	Chicago & Grand Trunk	25.48	1 58 0 59.28 0 77.99	01.49 02.42
	Chicago & West Michigan	29.71	0 77.99	02,20
6 7 8 9	Cincinnati, Jackson & Mackinaw	28.78	064	08.71
3	Cincinnati, Wabash & Michigan	23.50	0 61 0 83	02.10
	Detroit, Bay City & Alpena	29.50 82.05	0.79	02.48
	Detroit Lenging & Northern	25.77	0 79 0 66.08	02.48
1	Saginaw & Western		l	l
1	Duluth, South Shore & Atlantic	29.50	1 04.4	08.40
1	Flint & Pere Marquette	ž8	0 74	02.82
1	Manistee			
1	Saginaw & Clare County Saginaw & Mt. Pleasant			
ì	Grand Ranida & Indiana	81,10	0 77	02.15
1	Lake Shore & Michigan Southern System)	55.00	1 24	02.07
١	Detroit, Hillsdale & Southwestern			
l	Detroit, Monroe & Toledo			
ł	Fort Wayne & Jackson			
	Kalamazoo, & White Pigeon			
İ	Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan			
l	Manistique  Marquette, Houghton & Ontonagon  Marquette & Western	-,		
	Marquette, Houghton & Ontonagon	19.70	0 77.20	08.90
	Marquette & Western)	15	0.40	
	Michigan Air Line Railway	15	0 4C 0 40	02.20
	Michigan Central System	66.049	1 51	01.87
	Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge			
	Canada southern bringe.  Detroit & Bay City  Grand River Vailey  Jackson, Lansing & Saginaw  Kalamasoo & South Haven  Michigan Air Line R. R.  Michigan Midland & Canada  Saginar Rev & Northwestern			
	Technon Lensing & Reginew			
	Kalamazoo & South Haven			
	Michigan Air Line R. R.			
	Michigan Midland & Canada			
	Saginaw Bay & Northwestern			
	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit. Milwankee, Lake Shore & Western Milwankee & Northern	- 44	1 28	02.62
	Milwaukee & Northern	86	0 90 0 29,15	01.96
		7.81	0 29.15	
	Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River. Pontiac, Oxford & Port Austin.	·	• • • • • • • • • • • • • • • • • • • •	·
	Pontine Oxford & Port Austin	26,90	0 63	01.26
	Port Huron & Northwestern	81.757	0.77.10	02.20
	Saginaw, Tuscola & Huron	81.757 25.08 17.67	0 55,70	02,65
	Saginaw Valley & St. Louis	17.67	0 48.40	02,68
	Saginaw & Grand Rapids	32.90	0 87.84	110 E/7
	Pont Huron & Northwestern.  Saginaw, Tuscola & Huron.  Saginaw Valley & St. Louis.  Saginaw & Grand Rapids.  Toledo, Ann Arbor & North Michigan.  Toledo & South Haven.	15	0 48	
	TRAVERSE CILY	b		
	Wabash	B		
	C	29.97	20 89.08	
	Commercial roads	29.87	<b>2</b> 0 98.00	
	ORB AND FOREST ROADS.			
	Allegan & Lake Shore	•		
ı	Bear Lake & Eastern	<b>*</b>		
١	Buckley & Douglas			
١	Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River			
١	Hancock & Calumet	8.86	<b>\$</b> 0 80	
	Hecla & Torch Lake			
	Hobart & Manistee River			
١	Lake County Manistee & Luther	• • • • • • • • • • • • • • • • • • • •		
l	Mecosta			
١				
1	Ore and forest roads			
Ì	Total for all roads	29.97	90.98	-

a No report.
b Included with the G. R. & I.

#### 11A.-TRAFFIC.-CONTINUED.

ind Rates.		Freight Movements.						
Average local rate per mile.	Average rate per mile all passengers.	Tons of through freight moved. Number.	Tons of local freight moved. Number.	Total tons of freight moved. Number.	Total tons freigh moved previous year. Number.			
***********	\$0 02.695		49,699 250,889 519,544 10,437,633 907,833	49,699	49,606			
<b>\$</b> 0 03.66	02.56	84.781	250,889	49,039 885,620 1,584,720 10,837,483 916,063 192,285	283,783 1,875,851 9,030,610 944,843 c 284,017			
02.28 02.82	01.75	1,061,176	10 497 499	1,004,720	1,570,501			
02.63	02,00	000,000	10,107,000	018.082	8,000,010			
02.12	01.75 02.83 02.62 02.23	1,065,176 899,850 8,280 77,807	114,978	192,285	c 284.017			
02.60	02.60	46,439	114,978 260,840	1 807,279	261,618			
OB	08	1	7,297,087 524,270	7,297,087	172,824			
02.47 U2.57	02.47 02.56	189,819 42,715	524,270 453,406	664,089 496,121	261,618 172,824 722,798 504,048			
03,50 02,669	08,50 02,656	166,530 101,027	1,160,557 1,678,519	1,827,087 1,779,546	4 241,167 1,888,747			
08 558	OR ARO	861,280	K10 748	1,880,976	958,001			
02,558 02,835	09.480 02.280	1,221,705	519,746 8,105,147	9,326,852	8,805,597			
		***************************************	••••••					
			***************************************					
			·		j			
			152,550	152,550	6.858			
08,90	08.90	4,271	152,559 23,075	152,550 27,846	6,858 1,160,984			
	(8		50,487	50,437				
02.70 02.47	08 02.70 08.29	9,696 1,640,659	50,437 222,828 4,378,574	50,437 283,524 6,014,233	215,695 5,845,570			
				•••••				
• • • • • • • • • • • • • • • • • • • •								
• • • • • • • • • • • • • • • • • • • •								
••••								
02,819		441.044	1 E00 ME0	Ø 000 707	1,464,902			
08.62	02,788 02.50 08.98	222,220	1,582,758 812,900 105,150	2,023,797 585,120 105,150	1,101,806			
02.62 03.98	08,98		105,150	106,150	94,672			
		,						
08.40	02,88	8,688 22,570	61,125 75,888	64,768	55,288			
02.50	07,40	22,070	70,868	90,408 51 550	90,079			
02.16 02.74	02.40 08.22 02.74	1,078 1,356	50,478 58,891	96,458 51,556 60,247	96,079 34,658 46,146			
	l	1,000			20,120			
. 02.67 08.82	02.66 08.32	8,478	585,615 24,800	589,098 24,800	389,823 8,285			
	<b>\$</b> 0 02.39	6,564,769	89,910,281	46,474,990	88,436,860			
•								
		•••••						
			80,355	60,855	54,075			
			89,280	60,835 80,280 29,250	54,075 <b>39,95</b> 0			
			80,580 29,250 29,250 848,882 728,194 68,744	29,250				
\$03.89	<b>\$</b> 08.39		848,882	949 999	266,822			
••••			728,194	728,194 98,744 93,788 118,568	061,990			
••••			86,744 02 720	96,744 02 789	84 104			
			118.582	118 668	92,100 88 029			
			93,788 118,563 77,611	77,611	661,990 94,192 64,405 88,922 87,656			
	-		1,584,067	1,584,667	1,858,012			
	\$0.02,39	6,561,762	41,494,888	48.059,657	34,794,872			

c Reported last year as the Michigan & Ohio.
d Reported last year as the Detroit, Mackinac & Marquette and Mackinac & Marquette,

### MICHIGAN RAILROAD RETURNS.

### 11 B.—TRAFFIC.—CONTINUED.—FREIGHT.

1			Mileage.	
	Railroads.	Through Freight.	Local Freight	Total mileage or tons move one mile.
	Bay View, Little Traverse & Mackinac Chicago & Canada Southern		988,300	988,30
4 1	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago & Canada Southern Chicago & Grand Trunk Chicago & Frand Trunk Chicago & Worthwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Clincinnati, Jackson & Mackinaw Clincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee Saginaw & Clare county Saginaw & Clare county Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan Manistique Marquette, Houghton & Ontonagon	4,993,572 351,932,101 172,191,130 942,850 4,972,797 7,662,956	5.700,503 64,341,681 1,733,791,918 61,312,915 11,533,961	10,694,077 416,293,73 1,905,968,04 62,255,76
	Cincinnati, Jackson & Mackinaw. Cincinnati, Wabash & Michigan. Detroit, Bay City Alpena.	7,662,956	11,533,961 12,575,711 7,297,067 28,050,703 37,691,919	16,506,75 20,238,66 7,297,08
	Detroit, Grand Haven & Miwainee Detroit, Lansing & Northern Saginaw & Western Saginaw & Western Duluth South Shore & Atlantic	26,412,758 6,691,878 24,356,945	37,691,919 36,716,198	54,468,46 44,883,29 61,078,14
	Flint & Pere Marquette  Manistee Saginaw & Clare county	16,547,471	109,363,776	125,911,24
	Saginaw & Mt. Pleasant.  Grand Rapids & Indiana  Lake Shore & Michigan Southern System.  Detroit, Hillsdale & Southwestern	108,702,487 548,021,909	86,043,707 1,800,768,987	144,746,19 1,848,785,89
	Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand R <b>apids</b>			
	Kalamazoo & White Pigeon Northern Central Michigan Manistique Marquette, Houghton & Ontonagon Marquette & Western	990 079	1,164,466 767,777	1,164,48 997,85
	Marquette & Western Mason & Oceana		806,992 11,006,566	806,99 12,089,68 1,840,678,17
	Canada Southern Bridge Detroit & Bay City. Grand River Valley			
	Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit			
	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range	66,692,025 88.304,408	170,807,949 22,830,848 882,583	176,999,97 56,195,26 882,58
ľ	Muskegon, Grand Rapids & Indiana Ontonagon & Brule River			
	Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw aud Grand Rapids Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City DWabash	883,800 1,475,520 72,839 61,000	2,271,970 8,841,191 1,928,792 1,200,090	2,685,77 5,816,71 2,001,18 1,261,09
	Saginaw and Grand Rapids	582,400	27,287,768 872,000	27,870.16 372,00
	Traverse CitybWabash			
	Commercial roads	2,118,199,501	1	6,348,777,45
h	Allegan & Lake Shore			
ľ	Bear Lake & Eastern Buckley & Douglas		482,840	482,84
ľ	oCrawford & Manistee River		2,380,907	2,380,90
	o Allegan & Lake & Bore.  Blear Lake & Eastern.  Buckley & Douglas.  Ocrawford & Manistee River.  Grass Lake & Manistee River.  Hancock & Calumet  Hecla & Torch Lake  Hobart & Manistee River.  Lake County.  Wanistee & Luther  Mecosta.		5,461,455 656,208 515,794	5,461,45 656,20 515,79
	Manistee & Luther		504,471	504,47
	Ore and forest roads		10,001,675	10,001,675
ľ	Total for all roads	2,118,199,50 1	4,235,579,632	6,853,779,189

a Included with G. R. & I. b No Report.

### TRAFFIC.—CONTINUED.—FREIGHT.

Mileage.		Ton Haul				Rates,		
Total mileage previous year.	Average through Miles.	Average local.	.Average all. Miles.	Average amount for each ton haul.	Average per ton per mile. Through.	Average per ton per mile. Local.	Average per ton per mile. All.	Average per ton per mile prev- ious year.
1,009,058 9,615,678 354,218,960 1,615,712,446 58,866,707 3,179,739 15,699,141 3,378,281 59,325,894	59 330.4 431 114.56 100 165	19.90 28 128.8 166 67.54 64.83 48.20 19.55 53.5)	19.90 82 262.7 176 67.96 85.81 65.90 19.53 82.01	\$0 50.15 0 38 1 54 1 81 0 97.06 0 61 0 84.03 0 95	\$0 01 0 00.52 0 00.94 0 01.200 0 00.43 0 00.615	\$0 02.522 0 01 0 00.96 0 01.04 0 01.432 0 00.84 0 01.685 0 05	\$0 02,522 0 01 0 00,59 0 01,08 0 01,428 0 00,71 0 01,279 0 05 0 01,20	90 02.589 0 01.03 0 00.62 0 01.14 0 01.48 0 00.71 0 01.21 0 05 0 01.21
48,334,852 22,128,998	156 65 146	83.13	89.46	1 41.66 0 82	0 01.092	0 01.91 0 01.671	0 01.583	0 01.66
107,935,523	164	32 65	46 71	0 90.90	0 00.98 0 00.717	0 01.861	0 01.70 0 01.217	0 01 24
117,770,778 1,592,044,766	128.20 444.50	69.80 160.50	104.90 197.7	1 16 1 82.46	0 00.958 0 00.605	0 01.568 0 00.697	0 01.109 0 00.670	0 01.149 0 00 639
37,719 29,976,487	54	7.68 33	7.63 87	0 29	0 05.78	0 04 0 02.47	0 04 0 08.23	0 12 0 02.70
10,643,102 1,157,413,024	106 455	16 49 136	16 52 223	0 55 0 52 1 55	0 00.81 0 00.542	0 04 0 01.02 0 00.886	0 04 0 01 01 0 00.694	0 01.09 0 00.686
••••••								
105,610,560	151	118	87.5	1 90	0 00.978	0.01.608	0 01,367	0 01 64
688,176	150	78 8.39	105 8.89	1 20 1 34 0 64.76	0 00.914	0 01.608 0 01.763 0 07.71	0 01.277 0 07.71	0 06.95
2,360,971 4,629.817 1,207,008	100 65.87 67 45	37.2 50.60 38.21 20.38	40.7 54 38.81 20.93	0 98 1 80 0 83.49	0 01.28 0 01.71 0 03.07	0 (12.59 0 02.67 0 02.12 0 03.889	0 02 41 0 02 40 0 02 15 0 03 843	0 02.50 0 02.75 0 02.66
1,025,487	45 167.46	20.88 50.95	20.93 51.70 15	0 80.43 0 57.23 0 84	0 03.911	0 03.889 0 01.10 0 02.80	0 03.843 0 01.10 0 02.80	0 04.80
41,528			10	0 04			0 04.00	
5,841,587,883	322,66	105.87	136.50	\$1 21.10			\$0 00,871	\$0 00,886
878,525		8	8	\$0 29.79		\$0 08,72	\$0 03,72	\$0 04.27
299,625 490,476 1,833,167		7	7	0 19.02		0 02 75	0 02.75	0 (8.58 0 01 38 0 03.50
4,964,925 659,314		7.50 7 5.50	7.50 7 5.50	0 10.18 0 31.20 0 25		0 01,35 0 04,40 0 04,54	0 01.35 0 04.40 0 04.54	0 01.80 0 03.50 0 04.85
332,025 2,223,050 745,076		6.50	6.50	0 11		0 01.76	0 01.78	0 01.79
11,896,083		6.31	6.81	<b>\$</b> 0 24.06			\$0 03.81	<b>\$</b> 0 02.78
5,853,483,968	322,66	102.07	132,20	\$1 17.9			\$0 01.090	\$0 00.890

## MICHIGAN RAILROAD RETURNS.

#### 12.-TONNAGE AND COMMODITIES MOVED.

	Railroads.	Grain—Tons. 9.85 Per Cent.	Provisions, Meats, etc., Tons. 2,55 Per Cent.	Flour—Tons. 2.63 Per Cent.
	Bay View, Little Traverse & Mackinac	<b>4</b>		
	Chicago & Canada Southern	8,266	1,831	25,640
1	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee	38,097	12,673	20,641
1	Chicago & Wanthwestown	249,474	279,079 136,790 1,133	74,538 184,236
ı	Chicago & West Michigan	1,557,171 30,998	1 123	10 416
l	Cincinnati, Jackson & Mackinaw	16,677	635	10,410 4,587
l	Cincinnati, Wabash & Michigan	37.065	4.087	j <b>11,49</b> 0
	Detroit, Bay City & Alpena	2,918 106,310	1.957	897
١	Detroit, Grand Haven & Milwaukee	106,310	8,469 1,593	100,865
	Detroit, Lansing & Northern	44,111	1,598	15,818
	Saginaw & Western	2,680	6,338	2,774
	Plint & Doro Marquette	35.859	52,994	52,787
•	Manistee.	00,000	04,052	,
	Saginaw & Clare County Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern			
	Saginaw & Mt. Pleasant			
(	Grand Rapids & Indiana	46,934	5,697 810,957	18,827 818,231
1	Lake Shore & Michigan Southern System)	953,985	310,957	818,231
	Detroit, Hillsdale & Southwestern			
	Detroit, Monroe & Toledo		•••••	
	Fort Wayne & Jackson			
	Kalamazoo, Allegan & Grand Rapids			
	Kalamazoo, Allegan & Grand Rapids			
	Northern Central Michigan			
	Manistique	744	521	238
	Marquette, Houghton & Ontonagon	/27	0001	200
- 1	Mason & Oceans			
i	dichigan Air Line Railway. dichigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley	24,425	872	15,180
M	lichigan Central System	521,366	196,901	208,118
_	Canada Southern Bridge.			
	Detroit & Bay City			
	Grand River Valley			
	Kalamazoo & South Haven.  Michigan Air Line R. R.  Michigan Midland & Canada.			
	Michigan Air Line R. R.			•
	Michigan Midiand & Canada			
	Malada Canada Santhara & Detroit			
7	Roginaw Bay & Northwestern	20,550	13,384	11,847
ñ	filwaukee & Northern	50,292	9,958	6,720
M	Ineval Range	50,292 1,416	9,958 8,358	1,374
ī	Muskegon, Grand Rapids & Indiana	8		
Ī	Ontonagon & Brule River	b		
I	Pontlac, Oxford and Port Austin	10,868		1,412
)	Port Huron & Northwestern	36,576	8,684	
į	aginaw, Tuscola & Huron	2,368	674	188
2	Baginaw Valley & St. Louis	8,665	579	976
,	Port Huron & Northwestern saginaw Tuscola & Huron Saginaw Vålley & St. Louis Saginaw & Grand Rapids Foledo, Ann Arbor & North Michigan Foledo & South Haven	88,084	860	24,455
ä	Toledo & South Haven	1,813	800 46	24,400 178
'n	raverse City	1,010	380	170
	Wabash			
i	Detroit, Union R. R. Depot & Station Company			
_				
	Commercial roads	8,846,642	1.058,920	1,085,486
	ORE AND FOREST ROADS.	2,210,010	-,,	v fared see
•			1	
A	llegan & Lake Shoreear Lake & Eastern	D		
Ē	Bear Lake & Eastern	b		
Ì	Buckley & Douglas	••••		
9	rawford & Manistee Kiver	•••••		
1	Trass lake & Manistee Kiver	718	649	606
	Hallock of Calumet	.119	019	900
	Hobert & Manistee River	***************************************	*******	
	nouse of mailistor fliver			
	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Mauistee River Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River Lake County Lake County			
	Mecostal			
	MACCOCCO			
_	Ore and forest roads.	718	649	666
	~-~ ~~~ *^* *^* *^* * * * * * * * * * * *			
_				

a Included with Grand Rapids & Indiana. b No report.



## TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Animals—Tons. 8.17 Per Cent.	Other Agricultural Products—Tons. 2.71 Per Cent.	Lumber and Forest Products—Tons. 22.87 Per Cent.	Coal—Tons, 12.84 Per Cent.	Plaster, Cement, and Lime—Tons. 0.69 Per Cent.	Salt—Tons. 1.46 Per Cent.
· .	Z.11 Per Cent.	az.5/ rer Cent.*		ous rer cent.	
0 FOR	0.000	18 000	1 004	£72	
2,596 8,294 31,470 486,184	2,806	17,909 29,514 125,690 1,218,611	1,984 51,351 155,421 1,515,448 65,456 122,970 38,090 2,080 58,249	575	249
91 470	20,100 90,951	108,800	185 491	861 6,247 85,988 18,788 1,156	1,556 81,834 46,158
496 194	268 952	1 912 611	1 515 448	85 988	48 159
	10 077	1,210,011	RE 458	18 739	40,100
0,001 304 0	10,811	1,213,011 651,908 15,598 118,999 845,963 145,389	199 070	1 158	106
0,000 8.708	8,909	119 000	88,090	4,077	559
6,100 K94	2,006	845,883	8 090	196	558 8,179 8,405
90 818	26,615	145 899	58 849	11.411	3 405
3,585 8,798 524 20,218 11,850	22,403 22,433 89,851 865,258 18,977 8,113 6,203 2,066 26,615 19,186	810,250	15,070	11,411 4,945	5,800
	10,889	149,562	86,922	1,062	265
3,881 8,926	20,000	1,256,429	42,212	808	205,907
10,540	50,8 <b>29</b> <b>291,</b> 707	859,786 896,823	56,547 1,769,820	19,950 112,928	4,188 47,272
442,473	291,707	898,823	1,769,820	112,928	47,272
					l
••••••		•••••			
				<b>-</b>	
57	458	150,121 19,461	1,285	20	13
01	408		1,260	الم ا	i 18
		50.14A		I <b></b>	
8.127	15.142	42,986	42,966	508	498
3,127 287,295	15,142 105,907	50,146 42,986 1,658,804	957,829	8,414	238,514
• • • • • • • • • • • • • • • • • • • •					
•••					
			1		
	******				
K QAP	7,298	AKO KOO	29 009	2,556	1 K&O
5,963 4,258 1,248	1,000	452,506 204,353 53,245	82,207 81,852 8,567	~,000	1,559 5,185
1.248	2,804	58,245	8,567		0,,00
					1
1,594	7,514	27,085	5,428	504	2,052
4,424	6,456	10,808		1 000	
1,594 4,424 69 859	1,758	27,085 16,853 21,005 80,784	52 777	1,666 933	93 5,185
	1		1		<b>1</b>
1,688 708	16,352 950	66,812	248,096	8,511	579
708	, 1960	1,650	406	156	126
1,808,525	1,074,081	8,884,639	5,255,160	286,999	608,721
_,	-101 -1002	-lonalana	, 5,,,,,,,		
		00,400			
		90,9KO	••		
6	142	ar ar	5,852		
• • • • • • • • • • • • • • • • • • • •	89,987	16.000	27,898		
		93.744			
		98,788			
	656	60,355 89,280 29,250 68,664 16,000 93,744 98,788 117,907			
• • • • • • • • • • • • • • • • • • • •		77,611			
6	40,785	591,599	88,250		
1,803,531	1,114,866	9,426,238	5,288,410	286,999	608,721

### 12A.-TONNAGE AND COMMODITIES MOVED.-CONTINUED.

	Railroads.	Petroleum and Charcoal. Tons. 1,28 Per Cent.	Railroad Rails. Tons. 1,84 Per Cent.	Pig and Bloom Iron. Tons. 1.25 Per Cent.	Other Iron and Castings. Tons. 1.87 Per Cent.
	Bay View, Little Traverse & Mackinac				
	Bay View, Little Traverse & Mackinac Dhicago & Canada Southern Dhicago, Detroit & C. G. T. Junction Uhicago & Grand Trunk	815 289	155	5.178	16 68
	Uhicago & Grand Trunk Licago & Northwestern Licago & West Michigan Lincinnati, Jackson & Mackinaw Lincinnati, Wabash & Michigan Lincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Filmt & Pere Marquette Manistee	1,057 59,261	66,237 288,172	5,176 16,754 116,409	12,814 24,51
	Chicago & West Michigan Cincinnati, Jackson & Mackinaw	672	14	68,854 396	1.69
1	Cincinnati, Wabash & Michigan	1,938 248	5,760 875	2,8¥9 487	2,09
į	Detroit, Grand Haven & Milwaukee		8,619	11,946	7,85
1	Saginaw & Western		9,111		4,68
1	Duluth, South Shore & Atlantic.		22,539	19,711	6,82
•	Manistee				
	Manistee. Saginaw & Clare County Saginaw & Mt. Pleasant Frand Rapids & Indiana. Lake Shore & Mich. Southern System. Detroit, Hillsdale & Southwestern. Detroit, Monroe & Toledo Fort Wayne & Jackson. Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon. Northern Central Michigan				
(	Frand Rapids & Indiana.	6,253 895,961	20,963 88,256	26,849 167,473	7,66 569,49
•	Detroit, Hillsdale & Southwestern	000,801	00,400	101,210	000,180
	Detroit, Monroe & Toledo				
	Kalamazoo, Allegan & Grand Rapids.				
	Northern Central Michigan				
1	Manistique	•••••		118	24
	Marquette, Houghton & Ontonagon		• • • • • • • • • • • • • • • • • • • •	116	
		275		70	69
í	Michigan Air Line Railway Michigan Central System Canada Southern Bridge	87,204	70,495	62,819	79,60
	Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan, Midland & Canada. Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee, Lake Shore & Western Milwaukee & Northern Minaral Range				
	Grand River Valley	•••••		••	
	Kalamazoo & South Haven				
	Michigan Air Line R. R.		•••••		
	Saginaw Bay & Northwestern				
1	Toledo, Canada Southern & Detroitj Milwaukee, Lake Shore & Western	2,946	17,072	11,576	12.70
Ì	Milwaukee & Northern				12,70 28,11
ai	Muskegon, Grand Rapids & Indiana				
ы	Ontonagon & Brule River				
į	Port Huron & Northwestern				
Š	Saginaw, Tuscola & Huron				
	Saginaw & Grand Rapids	1,656	12,872	7,454	11,70
ŕ	Mineral Kange Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River. Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscols & Huron Saginaw Valley & St. Louis	1,000	12,012	1,40±	11,10
	Traverse City				
	Commercial roads	508,112	550,527	515,471	772,80
	ORE AND FOREST ROADS.				
b	Allegan & Lake Shore Bear Lake & Eastern				
٦	Bear Lake & Eastern				
9	Buckley & Douglas. Crawford & Manistee River Grass Lake & Manistee River				
	Hancock & Calumet				
]	Hecla & Torch Lake. Hobart & Mauistee River				
1	Lake County				
	Manistee & Luther			••••••	
-	Ore and forest roads	•••••			

a Included with Grand Rapids & Indiana.

No report.



# TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Ores and Mineral Product,—Tons, 14.73 Per Cent,	Stone, Brick, Sand and Clay. Tons. 8.17 Per Cent.	Manufactures, Tons, 8.76 Per Cent,	Merchandise and Articles -not included in Other Classes. 14.88 Per Cent.	Total Tonnage. 1887.	Total Tonnage Previous Year,	Freight Forwarded from Michigan Stations. Tons.
	741 12,068	1,042 51,598	11,450 74,287 282,517	49,699 835,620	49,606 283,738	44,125 212,482 1,046,891
958 2,409,108	12,063 42,865 809,641 21,899	117,118 552,985	282,517 1,541,551	835,620 1,584,720 10,837,483 916,063	1,875,851 9,080,610 944,348	1,046,391 2,277,282 864,598
20	2,752	3,101 19,149 8,703	1,541,551 128,728 15,800 41,864 8,573	197,230	284,017 261,679 172,824 722,798 504,043	1 54.55R
1,268	230 6,158 8,162	19,149 8,703 89,820 5,512	8,578 118,489 41,031	873,300 661,069 496,121	722,798 504,043	85,789 878,300 534,722 496,121
965,742	15,176 18,666	14,869 20,116	69,474 186,766	1,827,187 1,880,970	241,167 1,882,747	1,327,187 1,748,121
82,656 443,540	14,590 588,598	54,51 <u>4</u> 872,472	188,972 1,560,899	1,870,150 9,326,852	956,636 8,305,597	1,199,740 962,800
	***************************************					
	••••••					
	383	2,159	2,438 1,649	152,559 27,846	6,858 1,160,984	152,559 27,846
5,281	2,870 148,160	9,888 1 <b>09,42</b> 8	291 74,062 1,808,572	50,487 282,524 6,014,288	215,695 5,845,570	50,487 164,896 1,488,060
					• • • • • • • • • • • • • • • • • • • •	
		•••••				
1,195,171 82,871 19,094	56,743 128,88	67,069 22,220 8,109	113,118 65,600 11,485	2,023,797 585,120 105,150	1,464,902 94,672	968,014 50,352 105,150
					Pr 000	A4 F00
	17,699	2,181	8,417 25,515 5,560 8,606	64,763 98,458 51,555 60,247	55 238 96,079 34,653 46,166	64,763 98,458 51,555
	691	483				60,247
458	11,265 124	21,805 384	72,548 1,288	589,093 8,112	389,824 8,285	166,962 8,112
5,156,167	1,807,860	1,553,158	5,917,990	89,625,218	88,434,577	15,707,523
			•••••			
	••••••••••			60,355	54,075	60,855
			•••••	39,280 29,230	89,950	39,280
267,063		1,089	4,038	848.882	266,792	29,250 313,882
644,809	***************			728,191	661,990	728,194 93,744 98,788
•••••	•••••			728,191 93,744 93,788	94,193	93,744 93,789
•				118,563	64,405 88,922	118,563
				77,611	87,656	77,611
911,872		1,089	4,088	1,584,667	1,357,982	1,584,667

### 18.-EQUIPMENT.

	Railroads.	Estimated Value.	Locomotives all classes.	Passenger Cars, all classes. Number.	Baggage, Mail, and Express Cars. Number.
-	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk				
П	Chicago & Canada Southern	b			l
	Chicago & Grand Trunk	\$1,108,960 00	128	26	10
1	Chicago & Northwestern. Chicago & West Michigan. Cincinnati, Jackson & Mackinaw. Cincinnati, Wabash & Michigan.	\$1,108,960 00 10,675,820 00 620,575 00	786 47	814 89	11.
	Cincinnati, Jackson & Mackinaw		18	10	
1	Cincinnati, Wabash & Michigan	858,745 00	18	18	i g
	Detroit, Grand Haven & Milwaukee	293,400 00 805,390 00 587,250 00	17 41	5 84	1
	Detroit, Lansing & Northern	587,250 00	41	29	i ii
,	Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Crand Haven & Milwaukee. Detroit, Lansing & Northern. Saginaw & Western. Duluth, South Shore & Atlantic. Fiint & Pere Marquette. Manistee. Saginaw & Clare County. Saginaw & Clare County. Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System. Detroit, Hillsdale & Southwestern. Detroit, Monroe & Toledo. Fort Wayne & Jackson. Kalamazoo, Allegan & Grand Rapids. Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon. Northern Central Michigan. Manistique	1,661,887 61	7e	26	
	Fiint & Pere Marquette	1,982,280 09	80	66	1
	Manistee				
	Saginaw & Ulare County				
	Grand Rapids & Indiana	1,269,800 00 2,748,725 00	62	47	2
	Lake Shore & Michigan Southern System	2,748,725 00	525	188	7-
	Detroit, Monroe & Toledo				
	Fort Wayne & Jackson				
	Kalamazoo, Allegan & Grand Rapids				
	Northern Central Michigan				
	Manistique	26,062 25	1 52	12	
٠	Marquette, Houghton & Ontonagon	887,000 00	525	12	(
	Mason & Oceana	82,251 70	4	1	
	Michigan Air Line Railway	26,400 00	22	anr.	74
•	Canada Southern Bridge	7,001,475 00	102	200	17
	Detroit & Bay City				
	Jackson Lansing & Saginaw			•••••	
	Kalamazoo & South Haven				
	Michigan Air Line R. R.				
	Saginaw Bay & Northwestern				
	Marquette & Western Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City. Grand River Valley. Jackson, Lansing & Saginaw. Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern Milwaukee & Northern Mineral Range. Muskegon, Grand Rapids & Indiana.				
	Milwaukee, Lake Shore & Western	1,506,200 00	92	43 92	1
	Mineral Range	78,280 20	<b>5</b>	-4	
	Mineral Range Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River Pontiac, Oxford & Port Austin. Port Huron & Northwestern.	8		<u>i</u>	
	Pontiac. Oxford & Port Austin	86,865 00	1 5	7	
	Port Huron & Northwestern	298,406 00 106,750 00 85,250 00	18	22	
	Saginaw, Tuscola & Huron	106,750 00	<b>5</b>	7	
	Saginaw & Grand Rapids				
1	Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City	558,685 00 26,460 00	38	18	•
ı	Traverse City	20,400 00	8	8	
l	Wabash				
	Commercial roads	****	9.400		
		202,510,001 50	2,438	1,186	4.31
	ORE AND FOREST ROADS.	•			
	Allegan & Lake ShoreBear Lake & Eastern	<b>\$2,400</b> 00	1		
	Buckley & Douglas	3,025 00	2		
	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River	9,015 00	1		
	Hancock & Calumet	8,600 00 74,203 58	1 5	<u>i</u>	
	Hecla & Torch Lake	72,200 00	ğ	i	
	Hobart & Manistee RiverLake County	8,400 00 \$1,000 00	2		
	Manistee & Luther	69.511 00	4 5	i	
	MecostaParis & Pere Marquette River	7,484 00 20,650 00	2		
	rans of fore marquette miver	20,650 00	8		
	Ore and forest roads	\$296,438 58	35	6	1

a Included with Grand Rapids & Indiana.

b Included with L. S. & M. S. R'y.

### 18.—EQUIPMENT.—CONTINUED.

Box Preight Cars.	Stock Cars.	Platform and Coal Cars.	Ore Cars.	Conductors' Way Cars.	All other Cars.	Total Cars	Locomotives Equipped with Train, Brake,	Cars Equipped with Power Brake.
Number.	Number,	Number.	Number.	Number.	Number.	Number.	Number.	Number.
					<b></b>			
623 12,566 798	215 1,91 <u>4</u>	275 8,647 1,004 162		68 417 21	12	1,280 28,434 2,116	48	42
12,566	1,914	8,647	4,198	417	266 232 86	28,434	469	539
798 301	<b>ကိ</b>	1,004		i	202		88 5	12
885	5 20 18	1 178		9	. 8	562	16 17	18
88		810		.5	800 29	660	17	.7
391 335 88 862 404	44 41	199 549	· · · · · · · · · · · · · · · · · · ·	21 27	5	562 660 700 1,068	17 20	42 539 52 18 18 7 45 42
78 1,497	4 8	808 1,334	3,684	8 <b>6</b>	148 235	4,760 3,163	28 28	30 83
	•••••							
1,851 10,894	50	1,607		45	11	8,135 17,928	87	71 183
10,894	1,589	1,514	8,155	285	254	17,928	466	183
			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
		57				57		
25		144	2,884	2	82	8,155	7	18
····i					90	l l		·
18		24			NO.	116 24	1	2
7,840	1,886	2,984		257	186	12,415	162	205
•••••								
						• • • • • • • • • • • • • • • • • • • •	:	
1,800 458 23	55 10	780 907 58	850 25	48 12 1	829	8,118 744 91	66 24 2	54 32 3
						l <b></b>		
45		15		1	·····j	19	8	
2 45 164 82 10	4 24 9	61 80 108		1 1	2	120 299 205	i	8 28 10
82	9	103		1		205	8 <b>2</b>	10
10		40		1		54	. 2	8
580 12		275		11	8 12	841	14	18
12		16			12	43	2	3
			····					
89,841	5,896	16,415	14,796	1,218	1,948	80,679	1,476	1,506
į					1	ı		
		•			14	14		
		• • • • • • • • • • • • • • • • • • • •			21	81		
					31 38	38		
					26	26		
15		28 58	55 204		28 9 36 40	181 271 42	1	1 4
3		. 58 6	402		36	42	2	
					40	40		
8		18 1	••••		211 og	233	5	
		8			211 35 62	. 36 65		
		ı •		1				
							-	
228		109	259		525	922	8	4

e Equipment supplied by Grand Trunk of Canada. 

4 Equipment supplied by Wabash Western.



#### IA-STATIONS AND EMPLOYES.

		5ta	ions.	Emp	loyés.
Line No.	Railroads.	Total.	In Michigan.	Total.	In Michigan.
1 2 3 3 4 5 6 6 7 8 8 9 0 111 12 8 14 5 16 17 18 19 0 2 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee	14 12 83 677 118 35 40 30 87	12 12 50 32 112 33 8 8 80 87 71	282 2,567 16,915 1,819 216 349 350 1,025	279 1,615 1,068 1,280 1,96 29 350 1,055 926
18 14	Duluth, South Shore & Atlantic	59 98	59 98	1,849 1,950	1,849 1,950
15 16	Manistee Saginaw & Clare County				
17 18 19	Manistee Saginaw & Clare County Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo & Hiegan & Grand Rapids Kalamazoo & White Pigeon. Northern Central Michigan	167 269	152 90	2,001 11,890	1,705 1,707
21 21	Detroit, Monroe & Toledo				
28 28	Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids				
24 25	Northern Central Michigan			24	
26 27	Manistique	24	24	24 399	24 395
28 29	Marquette & Western.	8	3	81	81
30 31	Northern Central Michigan  Manistique.  Marquette, Houghton & Ontonagon.  Marquette & Western.  Mason & Oceana.  Michigan Air Line Railway  Michigan Central System.  Canada Southern Bridge.  Iletroit & Bay City.  Grand River Valley.  Jackson, Lansing & Saginaw  Kalamazoo & South Haven  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Air Line Railroad  Michigan Western  Toledo, Canada Southern & Detroit.  Milwaukee, Lake Shore & Western  Milwaukee & Northern  Mineral Range.	20 300	20 198	178 9,099	171 5,562
· 32	Canada Southern Bridge				
34 35 ·	Grand River Valley				
86 27	Kalamazoo & South Haven				
38 30	Michigan Midland & Canada	•••••			
40	Toledo, Canada Southern & Detroit				
42	Milwaukee & Northern	108 65	8 10	2,096 755	235 101
48	Mineral Range Muskegon, Grand Rapids & Indiana	4	4	60	60
45 46 47	Mineral Range.  Muskegon, Grand Rapids & Indiana.  Ontonagon & Brule River Pontlac, Oxford & Port Austin.  Port Huron & Northwestern	22 55 17 17	222 55 17 17	11 115 8/1	11 11 <i>5</i> <b>29</b> 1
48 49 50	Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo & South Haven.			78 73	78 78
51 52	Toledo, Ann Arbor & North Michigan.  Toledo & South Haven.	39 6	87 6	464 18	<b>297</b> 18
58 54	Toledo & South Haven. Traverse City. Wabash	49	····i7	883	893
	Commercial roads	2,481	1,281	55,184	21,448
1	Allegan & Lake Shore	2	2	9	9
2345 678	Allegan & Lake Shore Bear Lake & Eastern Buckley & Donglas Crawford & Manistee River Grass Lake & Manistee River Hancock & Calumet Hocia & Torch Lake Hobart & Manistee River	3	3	80	20
5	Grass Lake & Manistee River	2 5 8 2 2 10	2	81 22	30 31 32 70 50 46 10 10
7	Hancock & Calumet	5 8	2 5 8	70 50	7C 50
9	Hobart & Manistee River.	2 2	2 :	40 15	40 15
10 11 12	Liske County Manistee & Luther Mecoeta Paris & Pere Marquette River	10	10	70 50 40 15 60 10	60 16
12	Paris & Pere Marquette River	8 4	4	15	iš
	Ore and forest roads	36	86	85.2	863
	Total for all roads	2,467	1,267	55,586	21,800

<sup>\*</sup> Included with Grand Rapids & Indiana Railroad.

### STATIONS AND EMPLOYES.-CONTINUED.

				mployés Cl				
nen.	Brakes- men.	Conduc- tors.	Engineers.	Firemen.	Laborers,	Shopmen.	Yardmen.	Others.
28 291 18 3 4 5 25	21 154 1,189 87 8 18 58 58 47	14 81 617 44 6 11 21 32 26	14 121 928 53 15 16 28 44 41	11 110 949 58 15 16 25 42 41	99 678 5,227 5,23 88 1.20 103 801 805	12 533 1,747 188 24 80 37 67 191	24 123 740 30 8 3	78 740 5,277 828 49 81 84 277 248
4 5 25	18 58 58	11 21 32	16 28 44	16 25 42	120 103 801	80 37 67	3 94 18	81 84 277
14 18	71 140	35 79	50 91	76 92	617 665	163 870	58 74	287 421
21 187	107 535	60 248	89 580	90 529	896 1,916	880 650	38 945	430 5,840
•••••								
5	28	7	20	26	iii	120	10	72
	, , , , , , , , , , , , , , , , , , ,	<u>'</u>						
8 70	12 567	806	11 456	10 466	80 2,554	6 8 <b>62</b>	1 635	43 8,166
· · · · · · · · · · · · · · · · · · ·								
16 9 4	178 42 5	66 25 2	98 81 5	98 51 5	690 203 14	259 91 8	84 40 5	569 268 12
2 5	1 4 13 6 7	1 8 9 4 3	1 3 9 4 3	1 8 9 4 8	5 55 140 34 16	20 68	10	25 120 21 40
	i			26		72	29	104
10 1	47 1	24 2	25 2		127 12			
16	62	40	55	55	250	185	89	187
758	3,401	1,778	2,788	2,806	15,858	6,033	8,080	18,727
<b></b>				 				
<b></b>					••••••			
	6	8	5	ŏ	20	6	5	20
			· · · · · · · · · · · · · · · · · · ·					
	6	8	5	5	20	8	5	20
758	8,407	1,780	2,788	2,811	15,878	6,089	3,035	18,747

### 15.-PERMANENT WAY,

-					Bridge 8	struc	tures.		
غ ا	Railroads.	W	ooden.	Sto	ne or Iron.	Co	mbination <sub>.</sub>	Tr	esties.
Line No.		No.	Length.	No.	Length.	No.	Length. Feet.	No.	Length. Feet.
1 2 8	Bay View, Little Traverse & Mackinac Chicago & Canada Southern	9	876		924			8	1,846
5 6	Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan	83 19 10	5,696 2,450 1,812	8	552 848 215	2 2	853 1,121	191 180	20,126 22,627
7 8 9	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic. Flint & Pere Marquette Manistee.	1 1 10	144 60 1,365	2	436	2	1,487	71 17 9	20,129 1,700 2,375
10 11 12	Detroit, Grand Haven & Milwaukee	88	8,872 12,070	20 20	8,021 1,795 275	7	569	27 31 	8,352 2,391 13,124
18 14 15 16	Flint & Pere Marquette.  Manistee.  Sagina w. & Clara County	21	2,027	2	888		685	85	18,500
17	Saginaw & Mt. Pleasant	11 30	1,217 8,983	2 3	282 222	7 2	1,091 305	190 57	13,928 9,845
20 21 22	Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson								
19 20 21 22 23 24 25 26 27 28 29 80 31 82 83 84 85 87 88 89 40 41	Manistee Saginaw & Clare County Saginaw & Mt. Pleasant. Grand Rapids & Indiana Lake Shore & Mich. Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids (Kalamazoo & White Pigeon Northern Central Michigan		300					8	600
27 28 20	Marquette, Houghton & Ontonagon Marquette & Western	67 8	5,784	5	884	8	257	32	7,890
80 31 82	Michigan Air Line Railway Michigan Central System	18 224	450 1,265 18,592	87	4,880	4	8,227	77	7,796
88 84 85	Detroit & Bay City								
36 37 88	Michigan Air Line R. R. Michigan, Midland & Canada.								
40 41 42	Northern Central Michigan  Manistique MarquetteHoughton & Ontonagon Marquette & Western  Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee & Northern Milwaukee & Worthern Milwaukee & Worthern Mineral Range	28	2,550 2,805	 1	117			7	1,128 6,788
48 44 45	Mineral Range	8				l ı			645
46 47 48 49	Pontiac, Oxford & Port Austin	8 41 11 6	210 5,143 1,287 606	ï	880			18	1,510
50 51 52	Saginaw & Grand Rapids	99	1,084			i	812	55	7,019
53 54 55	Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Baginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon. Toledo & South Haven Traverse City Wabash	11 *	1,140		•••••		480	42	5,109
	Commercial roads		75,698	116	14,169	39	9,836	1,168	161,882
1 2 3	Allegan & Lake Shore Bear Lake & Eastern Buckley & Douglas	8 8	30 98					1 2	600 700-
5 6	Colfax & Big Rapids							3	500
8 8	Hancock & Calumet Hecla & Torch Lake Hobart & Manistee River			8	560			17 5 2	4,450 8,069 685
8 10 1i 12	Lake County	8	650 150					i ····i	183
14	Paris & Pere Marquette River  Ore and forest roads	11	926	3	560			828	10,187
-		843	76,624	119	14,759	39	9,836	1,200	172,089

a Included with the Grand Rapids & Indiana.

# PERMANENT WAY.—CONTINUED.

1 119 13 2,222 5 5 5 5 90 1 1 90 4 5 272 6 6 2277 6 6 4 10 11 11 11 11 11 11 11 11 11 11 11 11	1 119 7 1,043 5 1 2 1 120 1 120 1 1 1 1 1 1 1 1 1 1 1 1					Railre	oad Cro	ssings.	Highway and Street Crossings.						
1 179 99 18,518 21 9 23 487 27 6 5 5 1 498 13,994 32 1 33 749 29 12 6 6 761	1	-1	Length.		Length.	At Grade.	Over or under. No.	Total. No.	At Grade.	With Gate or Signal. No.	Over or under. No.	18 feet or over above track. No.	Less than 18 feet above track. No.	Total.	
1       31.5       11.6       16.984       17        17       44.2       14       9       7       2       451 <td>1       315       116       16,994       17       17       442       14       9       7       2       451         1       179       93       13,904       32       1       33       749       29       12       6       6       761         1       179       93       13,904       32       1       33       749       29       12       6       6       761         1       107       13,765       9       1       10       26       20       11       2       9       107         13       5,390       70       6,595       6       3       6       181       1       2       2       2       183       183       1       2       2       2       3       183       1       1       17       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td> <td>6</td> <td>287</td> <td>72 20 23 49</td> <td>25,562 25,562 20,278 1,760 5,618 6,508</td> <td>9</td> <td>1</td> <td>18 10 11 11 2</td> <td>42 68</td> <td>26 21 1 1</td> <td>9 4 20 2 2</td> <td>7</td> <td>5 4 18 2 1</td> <td>124 90 272 86 490 160 44 68 269 861</td>	1       315       116       16,994       17       17       442       14       9       7       2       451         1       179       93       13,904       32       1       33       749       29       12       6       6       761         1       179       93       13,904       32       1       33       749       29       12       6       6       761         1       107       13,765       9       1       10       26       20       11       2       9       107         13       5,390       70       6,595       6       3       6       181       1       2       2       2       183       183       1       2       2       2       3       183       1       1       17       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	6	287	72 20 23 49	25,562 25,562 20,278 1,760 5,618 6,508	9	1	18 10 11 11 2	42 68	26 21 1 1	9 4 20 2 2	7	5 4 18 2 1	124 90 272 86 490 160 44 68 269 861	
107   13,756   9   1   10   96   20   11   3   9   107	107   13,755   9	i	815	157 116	26,088 16.984	11 17	1	12 17	115 442	21 14		2 7	11 2	128 451	
107   13,756   9   1   10   96   20   11   3   9   107	107   13,755   9	ī	179	210 92	16,518 12,994	21 32	201	23	487 749	27 29	6 12	5 6	1	498	
58     5,380     70     6,595     6     84     8     87     1,081     65     2     2     2     32     20     1,883       1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1	38				10,002										
38	38			 5 107	900 18.755	1 9	1	1 10	2 96	20	11	2	9	2 107	
1	1	2	5,380	R		8			9	i		2		9	
1	1														
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	155 8,886 9 2 11 2 1 1 2 1 2 1 2 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 2 1 1 1 1	i	180	85 5 7	8,678 9,655 825	5 2	1 1	1 6 2	17 18 18	1	1 2	i	1	17 14 20	
155     8,885     9     2     11	155 8,385 9 2 11 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2	1 1	140 43	21 48 12 6	1,720 5,668 1,380 606	5 2	1	4 5 2 1	108 272 79 59	1	1 1	i	1	79	
	66         6,728         2,221         268,313         282         26         258         5,680         255         187         89         98         5,867			155	8,865	9	2	ii ii			2	1	1	2 '	
		36	6,728			J <del></del> -,	26		l			<b> </b>	98		
				20 5 2 2	5.010 3,059 685 650	1 1		1 1	13 6 1	2	i	1 1		13 6 1	
3 500 2 2 5 5 8 5 8 5	20 5.010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				210 188		1	2 1 1	5 128					5 12	
3   500   2   3   5   5   5   5   5   5   5   5   5	20   5,010   1   1   12   1   13   1   13   1   13   1   13   1   1			46	11,678	8	1	9	64	2	2	8		86	
3   500   2   3   5   5   5   5   5   5   5   5   5		66	6,728	2,267	879,986	240	27	267	5,744	257	189	92	98	5,988	

## MICHIGAN RAILROAD RETURNS.

#### 15A.-PERMANENT WAY.-CONTINUED.

		Fer	ncing.
Line No.	Railroads.	Completed. Miles. Number.	Required. Miles. Number.
1 2 3 4 5 8 7 8	Bay View, Little Traverse & Mackinac Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan	269.00 689.00 242.00	242.42 69.00
	Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette	385,00 548.00 52,99	857.00
	Saginaw & Clare county		88.87
	Saginaw & Mt. Pleasant.  Grand Rapids & Indiana Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo.	547.00 974.00	
	Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo.  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids.  Kalamazoo & White Pigeon.  Northern Central Michigan		
	Manistique Marquette, Houghton & Ontonagon Marquette & Western Mason & Oceana Michigan Air Line Railway Michigan Central System Canada Southern Bridge	84.00	206,00 10,00 1,00 225,40
	Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw		
	Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwankee, Lake Shore & Western		
	Milwaukee & Northern Mineral Range Muskegon, Grand Rapids & Indiana	21,65 5,00 3.00	77.00 53.00 81.00
	Ontonagon & Brule River . Pontiac, Oxford & Port Austin . Port Huron & Northwestern . Saginaw, Tuscola & Huron . Saginaw Valley & St. Louis . Saginaw and Grand Rapids . Toledo, Ann Arbor & North Michigan . Toledo & South Haven . Traverse City .	187.50 386.31 132.14 78.14	12.50 25.83 1.00
	Toledo, Ann Arbor & North Michigan. Toledo & South Haven Traverse City Wabash	354.00 40.00 a 150.40	82.00
	Commercial roads	8,254.29	1,548.52
	Allegan & Lake Shore	4.00 9.00 b	25.00
	Buckley & Douglas.  Colfax & Big Rapids Crawford & Manistee River.  Grass Lake & Manistee River.  Hancock & Calumet Hecla & Torch Lake	5.00	16.00 36,00
	Hobart & Manistee River Lake County Manistee & Luther Mecosta. Paris & Pere Marquette River	6.00	14.00
1	Ore and forest roads.	24.00	91.00
1	Total for all roads	8,302.29	1,639.53

a Included with G. R. & I. R R.

### PERMANENT WAY .- CONTINUED.

		Maint	enance.			Re	newals of T	
Trestles re- placed with earthworks.	Track sections in	Average Length of track sec-	Average No.of men to	Track re New rails la		Entire Line.	In Mich.	Average No per mile in
inear feet.	Mich. No.	tions. Miles.	each section.	Tons of rail.	Miles.	No.	No.	Mich.
	9	6,99	8			18,482	17,362	279
	18	4.50	1 2			4,505	4,505	76
286	45	5.00	4 5	1,545.00	14.72	4,505 152,779 1,044,011	75,799	887
	45 58 78 14	6.50	8	14,819.00	148.00	1,044,011	64,454 184,069	. 254
2,461	78	5.50 9.00	8	1,000.00	11.00	198,260	184,009 45,484	467 842
710	6 26	6.00	8	2,160.00	24.00	45,484 29,256	45,484 1,200	178
988	26	7.50	4					
144	87 56	5.10 5.50	4 8 4 4 8	2,058.00 900.00	19.50 10.85	114,749 90,633	114.749 90,688	607 388
1,050 24	62 77	6.00 5.00	9	1.524.00 31.99	16.20 81.83	100,703 195,606	100,708 195,608	286 195,606
••••								
	10	4.40		10.74		224.692	981 860	
280	80	4.40 5.88	4 5	10.74		614,596	201,692 174,278	557 458
							1,200,0	
••••								
••••								
	2 82	6.00 4.88	10 5	888.00	6.00			
••••								
	21 21	8.00	5					
842	287	5.00 4.50	3 4	7,046.00	68.88	5,125 897,788	5,125 558,817	49 530
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• • • • • • • • • • • • • • • • • • • •								
••••••	14	6.00	8	8,281.00	.84	171,651	171,651	815
• • • • • • • • • • • • • • • • • • • •	14 10	5.70 6.00						
	8	6.00	4			921	921	58
	16	6.26	8	1.25	.01 5.58	1.114	1.114	11
	88 11	7.00 6.00	8	804.00 87.00	5.58	1,114 55,224 18,710	1,114 55,224	258
•••••	11 7	5,68	8	87.00	.61	18,710 10,509	18,710 10,509	206 288
								200
800	24	7.00	4 2	2,784.00	68.28	21,079	17,685	120
	6	6.00	25			8,610	8,610	180
	12	6.80	7			60,689	19,806	290
6,010	1,008	5.82	4.40	87,879.98	414.75	4,070,120	2,128,205	
	1	8.00	8 5	62.00	1.88	250	250	50
	1	17.00	0	<b>W2.UU</b>	1.00	4,000	4,000	8,800
	1	6.00	4			18,000	18,000	8,000
	1	6.00	5	•••		1,000	1,000 300	100
	1	8.00 8.00	6			475	475	87 23
	i	7.50	ě			2,000	2,000	24
	į	7.50 9.24 11.00 10.00	8 4 6					
	1 5	10.00	4	56.00 2.795.00	1.00 42.75	6,000   44,496	6,000	545 2,700 250
	1 1	6.50	4	~	TN.10	2.500	44,425 2,500	250
	ĩ	16,00	6			6,000 44,425 2,500 1,800	1,800	112
	19	8.98	4.58	2,918.00	45.08	80,750	80,750	
6,010	1,022	5.71	4.47	88,292.98	459.88	4,150,870	2,228,950	881

## 15B.-PERMANENT WAY.

-		Ren	ewals of T	mber Culv	erts.
	Railroads.	With Stone, or Iron Pipe. Number.	With Sewer Pipe. Number.	With Timber. Number.	Total Number.
	Bay View, Little Traverse & Mackinac	8			
1	Bay View, Little Traverse & Mackinac. Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction.	14			14
	Chicago & Grand Trunk	4		64	68
	Chicago & Northwestern	17	6	1	24
	Cincinnati, Jackson & Mackinaw			15	18
3	Detroit, Ray City & Alpena				
	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Worthwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee	1 8	8	8 1	7
3	Saginaw & Western			21	21
í	Flint & Pere Marquette	4		10	14
	Manistee. Saginaw & Clare County. Saginaw & Mt. Pleasant. Grand Rapids & Indiana. Lake Shore & Michigan Southern System. Detroit, Hillsdale & Southwestern. Detroit, Monroe & Toledo. Fort Wayne & Jackson. Kalamazoo, Allegan & Grand Rapids. Kalamazoo & White Pigeon. Northern Central Michigan.				
ĺ	Saginaw & Mt. Pleasant				10
3	Grand Rapids & Indiana		. 4	6 89	8
51	Detroit, Hillsdale & Southwestern				
il	Detroit, Monroe & Toledo				
3	Fort Wayne & Jackson				.7
1	Kalamazoo, Allegan & Grand Rapids				<b>y</b>
5	Northern Central Michigan				
3	Manistique				
	Manistique.  Marquette, Houghton & Ontonagon.  Marquette & Western.				
3	Mason & Oceana				
5	Michigan Air Line Railway Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley	2			1
	Michigan Central System				
2	Canada Southern Bridge				
1	Grand River Valley				
5					
!	Kalamazoo & South Haven				
١l	Kalamazoo & South Haven. Michigan Air Line R. R. Michigan Midland & Canada				
9	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern				
?	Toledo, Canada Southern & Detroit.				
١	Milwaukee, Lake Shore & Western				
1	Mineral Range				
ŀ	Muskegon, Grand Rapids & Indiana	•			
2	Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford and Port Austin Port Huron & Northwestern Saginaw Tuscola & Huron				
í	Port Huron & Northwestern			1 8	
3	Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo & South Haven		2		
!	Saginaw Valley & St. Louis.	1	2		1
1	Toledo, Ann Arbor & North Michigan			13	ii
è	Toledo & South Haven				
B	Traverse City Wabash	•		5	
-		40	15		
	Commercial roads	46	15	187	241
ا 1	Allows & Lake Chose	l		i	
1 2 3 4 5 6 7 8 9 0 1	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River. Grass Lake & Manistee River. Hanoock & Calumet Heela & Torch Lake Hobart & Manistee River.				
3	Buckley & Douglas			<b> </b>	
2	Grees Lake & Manistee River		j		
6	Hancock & Calumet.				
7	Hecla & Torch Lake				
8	Hobart & Manistee River				
ő	Lake County				j
ĭ	Mecosta				
			l	J	
_			,	•	ı
_	Ore and forest roads.				

## PERMANENT WAY.—CONTINUED.

			LIGEOR.	New B			
	<b>m</b> -4-3	nation.	Combi	Stone.	Iron or	den.	Woo
Total Feet.	Total Number.	. Foot.	Number.	Feet,	Number.	Poet.	Number.
4,482	61 8					4,482 1,129	. 61 . 8
4,432 1,129	8					1,129	. 8
						160	*i
160 391	1			891	i	100	- 1
875	6					875	6
1 171	12			•		1 171	
1,171	امد					1,171	12
	87						
264	8		• • • • • • • • • • • • • • • • • • • •			264	8
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206	1			206	1		
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• • • • • • • • • • • • • • • • • • • •			••••				
				•			
775	6					775	6
68	i					63	<u>1</u>
98	1					09	1
8,966	187			597	2	8.869	98
48	î					48	, 1
	[						
48	1					48	1
9,014	188			597	2	8,417	99

Line No.	—35 <b>∞</b> 4.0		7222		**************************************	
Taxes per Mile of Road Operated in Michigan.		<b>XXXX</b> <b>XXX</b> <b>XX</b> <b>XX</b> <b>XX</b> <b>XX</b> <b>XX</b> <b></b>	52 09 155 06			25 25 25 25 25 25 25 25 25 25 25 25 25 2
Total Taxes Assessed for Michigan.	\$144 90 806 84 5,138 87 56,945 38	72,441 06 8,928 14 8,976 92 1,843 08 9,866 98 25,171 40 23,688 00	8,385 19 56,374 80			14,894 00 1,082 18 1,082 18 1,081 18 1,081 78 1,049 97 1,049 97
Per Cent of Taxation on Taxable Income.	84 87 87 87 50 05 50 16	, , , , , , , , , , , , , , , , , , ,	20.03 24.47	ल्-स्थित्र इ.स.च्या	# 6 ±	######################################
Taxable Income per Mile of Road Operated.	\$1,271 08 640 16 4,218 56 10,253 77	88888 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	4,162 58 6,500 23	5,851 00 29,032 57 5,032 68 8,457 72 8,136 48 2,417 06 1,771 68	8,152 88 7,760 81 3,066 10 1,520 88 20,494 70 4,15 18	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Taxable Income reported for Michigan.	\$7,244 87 40,291 96 250,455 64 2,296,945 91	2,885,713 65 1,296,307 08 196,846 20 82,161 73 469,296 88 1,194,309 88	416,759 67 2,363,920 09	2,061,760 41 3,399,806 78 38,462 78 482,483 76 7,831 38 182,887 76 108,586 24		818,985 58 14,580 683 58 142,480 46 6,677 48 84,088 70 84,088 70 84,088 70 84,088 70 84,088 70 84,088 70 84,088 70 88,289 60 88,289 60
Miles of Road Operated in Michigan.	5.70 5.94 5.63 7.64.53	821.88 379.48 156.00 187.40 187.40 189.00	160.00	851.84 115.86 15.80 66.20 54.67 58.43 88.43 88.57	14.08 180.97 16.98 106.98 81.00 81.00 81.00 81.00 81.00 81.00	25,73 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10 26,10
Raliroads.	Bay View, Little Traverse & Mackinac. Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk.	Chicago & Nahamazoo & Saginaw Chicago & Nathwestern Chicago & West Michigan Chicanati, Jackson & Mackinaw Cincinnati, Jackson & Michigan Detroit, Bay City & Alpana Detroit, Grand Haven & Milwaukee	Saginaw & Western Duluth, South Store & Atlantic Mannistee Mannistee	Saginaw & Ciare County Saginaw & Mr. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hilstale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Novell & Hastines Lovell & Hastines	Manistique Marquette, Houghton & Ontonagon Marquette & Western Mason & Oceana Michigan Air Line Rallway Canada Souteral Canada Souteral Canada Souter Bridge Dernott & Ray City	Grand River Valley Jakkson, Lansing & Saginaw Kalamazoo & South Raven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit Milwankee, Lake Shore & Western Milwankee, Lake Shore & Western Milwankee & Northern

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Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River. Pontiac, Oxford & Port Austin Port Huron & Northwestern. Saginar, Tuscola & Huron.	Sagmaw valley or St. Lotts. Sagmaw & Gread Rapids. Toledo, Ann Arbar & North Michigan	Toted, Saginary or musicagon Traverse City Walsen	Whichigh Central Depot & Station Co.	Commercial roads	ORE AND FOREST ROADS.	Allegan & Lake Shore Bear Lake & Eastern. Buckley & Douglas. Colfax & Big Rapids. Colfax & Big Rapids. Corawford & Manistee River. Hancock & Calumet. Hecla & Torch Lake Hobart & Manistee River. Lake County. Manistee & Luther. Mecosta.	Ore and forest roads.	Total for all roads

Includes the Iron River Railway.
 Special charter and taxed on capital stock.

### MICHIGAN RAILROAD RETURNS.

#### 17.-ACCIDENTS-GENERAL STATEMENT.

BCCCCCCCITI IF G1	Railroads.  ay View, Little Traverse & Mackinac	Passen-gers. No.	Em- ployés, No.	Others. No.  1 4 4 6 1 5 5 5 5 7 7	Total. No.
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3	Mecosta		-	-	.
-	Ore and forest roads		. 8	2	
-	Total for all roads	2	62	78	

a Included with the G. R. & I. R. R.

# TABULAR STATEMENT.

## ACCIDENTS .- CONTINUED.

	Suicides	Trespensers	ility for lent.	Responsib Accid	Enda!		ared.	Inj	
Line No.	and Drunk. No.	Trespassers and Tramps. No.	From lack of Caution. No.	Clearly Accidental. No.	Total   Accidents. No.	Total.	Others.	Em- ployés. No.	Passen- gers. No.
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## MICHIGAN RAILROAD RETURNS.

#### 17A.-ACCIDENTS CLASSIFIED.

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	Bay View, Little Traverse & Mackinac	a							<b> </b> -				
	Bay View, Little Traverse & Mackinac. Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago & Worthwestern. Chicago & West Michigan Cincinnati, Jackson & Mackinaw. Cincinnati, Wabash & Michigan	ь										8	•
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	Manistee												
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	Grand Rapids & Indiana								2			11	
	Lake Shore & Michigan Southern System												
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	Hobart & Manistee River												
	Lake County Manistee & Luther												•
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-	Ore and forest roads.	-		_								2	
	Ore and forest roads				_		2	<u> </u>	16			12	
_	Total for all roads	_	2		9	9				l			

a Included with the G. R. & I. R. R. b Included with the L. S. & M. S. Ry.

## TABULAR STATEMENT.

## ACCIDENTS CLASSIFIED.—CONTINUED.

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# MICHIGAN RAILROAD RETURNS.

#### 17B,-ACCIDENTS CLASSIFIED.-CONTINUED.

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	Railroads.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	
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	Traverse City	9																	
	Marquette & Western Mason & Oceana. Michigan Air Line Railway. Michigan Central System. Canada Southern Bridge. Detroit & Bay City. Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven. Michigan Air Line R. R. Michigan Air Line R. R. Michigan Midland & Canada. Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit. Milwaukee, Lake Shore & Western Milwaukee, Lake Shore & Western Mineral Range. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River. Pontiac, Oxford & Port Austin Port Huron & Northwestern Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo & South Haven Traverse City. Wabash											3							
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	Bear Lake & Eastern																		
	Coifax & Big Rapids																		
	Allegan & Lake Shore.  Bear Lake & Eastern Coifax & Big Rapids. Hancock & Calumet. Hobart & Manistee River. Manistee & Luther																		
	Manistee & Luther												::						
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	Ore and forest roads																		
	Total for all roads	-	-	15	-	-	27	-	177	- 2	0		0		9			5	1
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a Included with the G. R. & I. Railroad. Included with the L. S. & M. S. Railway.

# TABULAR STATEMENT.

#### CLASSIFICATION OF ACCIDENTS.—CONTINUED.

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# 17c.—ACCIDENTS.—CLA SSIFICATION OF

Line No.	Railroads.	Beggege- men, No,	Brakeman. No.	Conductors.
1	Ray View, Little Traverse & Mackinac. Chicago & Canada Southern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Vabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Saginaw & Western Duluth, South Shore & Atlantic Flint & Pere Marquette Manistee		•••••	
ġ	Chicago & Canada Southern	b	<u>-</u>	
8	Chicago, Detroit & C. G. T. Junction		5 18	9
4	Chicago & Grand Trunk		23	ĩ
5	Chicago & Northwestern		1	Ī
7	Cincinnati Jackson & Mackinaw			1
8	Cincinnati, Wabash & Michigan.		6	
9	Detroit, Bay City & Alpena		7	1
io I	Detroit, Grand Haven & Milwaukee		. š	ī
i i	Detroit, Lansing & Northern			
ã	Duluth, South Shore & Atlantic		24	, z
4	Flint & Pere Marquette		24	
5	Manistee			
6	Saginaw & Clare County			
8	Grand Rapids & Indiana		6	
9	Lake Shore & Michigan Southern System		8	z
0	Detroit, Hillsdale & Southwestern.			
23456789011284567890112845887899011234587890112345678901123456789011234	Manistee Saginaw & Clare County Saginaw & Mt. Pleasant Grand Rapids & Indiana Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Fort Wayne & Jackson			
22	Detroit, Monroe & Toledo. Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon. Northern Central Michigan.			
24	Kalamazoo, Allegan & Grand Rapus			
3	Northern Central Michigan			
28	Manistique			
77	Northern Central Michigan  Manistique  Marquette, Houghton & Ontonagon  Marquette & Western			
28	Mason & Oceana		1	
m	Mason & Oceana.		8	
ũΙ	Mason & Oceana.  Michigan Air Line Railway.  Michigan Central System  Canada Southern Bridge.  Detroit & Bay City.  Grand River Valley.  Jackson, Lansing & Saginaw  Kalamazoo & South Haven  Michigan Air Line R. R.  Michigan Midland & Canada  Saginaw Bay & Northwestern  Toledo, Canada Southern & Detroit  Milwaukee, Lake Shore & Western		81	4
2	Canada Southern Bridge			
13	Detroit & Bay City			
4	Grand River Valley			
1 20	Valernarge & South Haven			
7	Michigan Air Line R. R.			
8	Michigan Midland & Canada			
19	Saginaw Bay & Northwestern			
io	Toledo, Canada Southern & Detroit	1	12	1
	Toledo, Canada Southern & Detroit Milwaukee, Lake Shore & Western Milwaukee & Northern	l		
ã	Mineral Range			
14	Muskegon, Grand Rapids & Indiana.	8		
15	Mineral Range Muskegon, Grand Rapids & Indiana Ontonagon & Brule River Pontiac, Oxford & Port Austin. Port Huron & Northwestern			
16	Pontiac, Oxford & Port Austin		1	
IS	Saginaw Tuscola & Huron			
iğ	Saginaw Valley & St. Louis.			
0	Saginaw & Grand Rapids			
51	Port Huron & Northwestern Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo & South Haven. Traverse City.		8	1
2	Toledo & South Haven			
100	Wahash			i
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- 1	Commercial roads	1	164	19
- 1	ORE AND FOREST ROADS.			
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8	Rear Lake & Eastern		1	
3	Buckley & Douglas		   1	
4	Allegan & Lake Shors  Bear Lake & Eastern  Buckley & Douglas  Colfax & Big Rapids  Crawford & Manistee River  Grass Lake & Manistee River  Hancock & Calumet  Hank & Torok Lake		1	
5	Crawford & Manistee River			
6	Urass Lake & Maliston Kiver		1	
1 2 3 4 5 6 7 8 9 10 12	Hancock & Calumet.  Hecla & Torch Lake.  Hobart & Manistee River.  Lake County.  Manistee & Luther.		l	
9	Hobart & Manistee River		1	
ιŏ	Lake County			
1	Manistee & Luther		1	
2	Mecosta			
-	Ore and forest roads		5	
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a Included with the G. R. & I R. R.

# EMPLOYÉS KILLED AND INJURED.

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18.—COMPARATIVE SUMMARY FROM ANNUAL REPORTS FOR 1886 AND 1887,

10.—COMINETATE SOMMENT	FINDER ANNOAL	AL INEFURIB FUR 1000	FOIL 1000 AMD	1001		
	1886.	1867.	Increase.	Decrease.	Per Cent of Increase.	Per Cent of Decrease.
Length of roads owned Length of roads operated Length of roads in Michigan Length of second track in Michigan Length of sidings in Michigan Computed as single track in Michigan	11,164.34 18,566.87 6,577.68 89.00 1,282.80 6,966.88	11,962.91 12,404.68 6,768.41 121.10 1,450.68 7,880.28	768.67 190,78 82.10 188.88 961.88	1,192.06	6.88 3.42 36.06 10.78 5.18	8,74
Capital stock paid in. Paid in per mile of road Total funded debt. Total debt. Total debt. A verage debt per mile of road Total stock and debt. Stock and debt per mile of road Total cost of roads and debt. Cost per mile of road. Proportion of cost for Michigan	2776, 543, 554, 00 24, 797 12 25, 170, 164 68 38 25, 170, 164 48 386, 717 68 880, 240, 271 68 890, 240, 271 68 879, 945, 458 11, 946 28 213, 364, 228 77, 346, 228	2802,136,988 87 21,001,304 67 25,424,881 40 25,426,882 08 24,006 00 546,588,730 90 41,081 00 240,167,006 90	20 TRE, 2017 (06	\$14,716,635 13 \$7,294,182 70 \$6,589,915 65 \$1,686,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,645,540 78 \$1,64	1.06	20.47 11.01 20.47 12.16 12.56 12.56 12.56
Edrnings: Passenger Express Mall Freight Other sources	\$21,876,478 06 1,884,663 11 2,084,873 04 67,187,406 08 428,196 64	951,382,606 38 1,548,963 04 1,574,818 38 56,672,883 96 76,962 10	\$107,128 88	\$288,680 07 189,554 28 514,683 08 845,208 54	.503	17.80 9.18 9899 81.07
Total	\$82,884,385 47	98 2/2'999'198		\$1,277,782 62		1.54
Per mile of road Per train mile, passenger Per train mile, freight Per train mile freight	\$6.047 66 1 07 1 1 34.43 1 84.43	\$6,574 96 1 18.8 1 52.6 1 40.48	6527 29 0 11.8 0 00.68 0 00.08		871	
In excess of operating expenses.  Receipts in addition to traffic earnings.	\$28,617,411 28 1,800,928 88	\$29,166,268 55 1,867,469 19	\$648,867.27 66,545.86		1.92	
Total revenue from all sources.	\$84,184,469 80	\$82,923,729 04		\$1,211,237 26		1.4

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SUMMARY
19.—COMPARATIVE
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	1883.	1884.	1886.	1896.	. 1887.
Total length of railroads and branches  Total length of railroads in Michigan  Total length of double frack.  Total length of sidings	10,580.56 4 966.88 366.24 1,557.88	11,487.99 6,120.94 888.18 1,663.09	11,617.67 5,247.48 • 90.10	11,164.34 6,677.63 89.00 1,262.30	11,982,91 5,768,41 121.10 1,430,68
Capital stock paid in Per mile of road.  Capital stock paid in per mile of road.  Total unfunded debt.  Total unfunded debt.  Total debt per mile of road.	24,752 00 24,752 00 297,969,229 88 80,070,982 99 88,090,122 88 88,090,122 88	\$278,792,854 81 21,706 00 818,960,434 39 27,707,381 97 946,797,796 38	880,686,168 28 24,168 00 880,686,168 28 26,680,088 03 347,546,986 29 30,886 00	2876.948,554 00 28,797 12 386,288,168 38 28,100,554 86 86,386,717 68 81,664 06	20,000,000,000,000,000,000,000,000,000,
Total stock and debt	587,747,141 80 56,813 00 645,978,592 71 51,817 00 51,817 00	624,580,660 GT 64,343 62 677,183,138 00 50,461 00 228,194,838	630,076,025 02 64,284 07 579,532,980 14 49,996 00 220,670,912 53	680,240,271 68 66,451 18 579,445,425 48 51,946 28 213,864,228 97	548,583,770 90 45,972 71 499,601,490 52 41,681 00 240,157,066 90
Egratings; From passengers From mails: From express From features: From features:	\$24,179,235 30 1,877,060 00 1,908,018 67 68,044,906 27 384,186 71	\$21,965,677 49 1,820,778 86 2,156,574 89 55,867,785 37 513,559 67	\$19,782,683 96 1,775,768 63 2,167,120 07 52,742,257 81 485,082 83	\$21,275,478 06 1,884,688 11 2,084,872 64 67,187,408 08 422,196 64	821,889,606 88 1,874,818 38 1,544,983 04 56,672,882 85 76,982 10
Total earnings	\$90,412,549 65	\$81,807,816 08	\$76,962,864 80	\$62,884,085 47	\$81,556,252 85
Earnings per mile of road  Earnings per train mile—passenger trains  Earnings per train mile—freight trains  Earnings per train mile—all trains	\$6,488 28 1 27.78 1 66.90 1 46	\$5,798 94 1 11.11 1 43.06 1 31.58	95,797 00 0 85,54 1 36 1 24,9	\$6,047 66 1 07 1 51.88 1 84.42	\$6,574 98 1 18.8 1 56.6 1 40.48
Barnings above operating expenses	\$29,221,568 24	\$28,861,817 21	\$22,814,179 29	128,617,411 28	\$29,166,288 55
Receipts in addition to earnings	81,081,454 58	\$1,086,615 97	\$1,214,589 81	\$1,800,928 88	\$1,367,469 19
Total receipts for the year.	\$91,588,608 27	\$83,843,982 05	\$78,167,404 61	\$84,134,969 30	\$62,928,728 O4

Operating expenses—maintenance of way and buildings. Operating expenses—motive power and cars. Operating expenses—conducting transportation Operating expenses—general expenses	\$14,349,904 60 9,167,756 02 80,088,983 96 7,649,442 9.	\$13,165,841 96 7,881,929 97 28,967,991 74 8,020,034 02	\$11,189,667 15 8,119,431 16 27,461,522 12 7,840,366 69	\$12,121,071 88 8,183,599 84 28,627,569 96 7,384,388 56	\$11,396,088 62 8,129,567 58 26,824,970 92 6,669,417 18
Total operating expenses	\$61,190,096 41	\$68,086,288 66	\$64,188,686 01	\$64,216,624 19	\$52,884,984 30
Operating expenses—per mile of road Operating expenses—per train mile. Operating expenses—per cent. of earnings	\$4,860 16 0 96,94 0 67.67	\$4,056 82 0 88.21 70.86	94.660 07 0 87.9 70 88	\$3,968 32 0 87.97 65 45	84,216 84 0 90,09 64 28
Interest and rentals—total Interest and rentals—per mile of road Interest and rentals—per train mile Interest and rentals—per cent. of earnings	\$22,622,971 06 \$1,008 86 0 36,37	\$90,168,288 90 \$1,406 67 0 83,40 24,68	\$18,081,905 00 \$1,656 42 0.29.37	\$18,540,819 85 \$1,000 09 0 300.06	\$17,866,110 33 1,489 37 6 30,76
Operating expenses, interest, and rentals—total	\$58,718,967 46	\$78,188,621 56	\$72,020,560 01	\$72,757,444 04	\$70,245,094 08
Operating expenses, interest, and rentals—per mile of road————————————————————————————————————	\$5,954 00 1 86.81 82.59	\$5,465 49 1 25.70 85.57	\$6,816 O7 1 17.27 98.48	\$6,516 96 1 18.05 87 90	\$5,685 71 1 20.85 86 00
Average rate per ton mile.	\$0 00°8	\$0 00°804	\$0 00.884	\$0 00.890	\$0 01.090

#### ERRATA.

Page 661, Table 11 A, Detroit, Bay City & Alpena Railroad—Total tons of freight moved should read 373,300, instead of 7,297,087.

Total tons of freight moved, page 661—Footing for Commercial Roads should read 39,625,213, instead of 46,474,990, and —Footing for all roads should read 41,209,880, instead of 48,059,657.

Page 689, Comparative Summary 1886-1887, Freight Traffic—Total tons moved should read 41,209,880, instead of 48,059,657.

Increase should read 6,417,321 tons, instead of 7,651,108 tons, 18.94 per cent.

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